CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Sept. 11	Monroe, Mich. ..... Adv. Aug. 31 and Sept. 7.	Aug. 31
Sept. 12	Thief River Falls, Minn.	Aug. 31
Sept. 12	Phila., Pa.	Sept. 7
Sept. 13	West Park (Cleveland P. O.), O.	Sept. 7
Sept. 14	Mineola, N. Y.	Aug. 31
Sept. 15	Grants Pass, Ore.	July 27
Sept. 15	Hillsboro, O.	Sept. 7
Sept. 15	Plaquemine, La.	Aug. 3
Sept. 18	East Grand Forks, Minn.	Sept. 7
Sept. 18	Steubenville, O.	Sept. 7
Sept. 22	Duluth, Minn.	Sept. 7
Sept. 25	Tulsa, Okla. ..... Adv. Aug. 24 to Sept. 7.	Aug. 24
Sept. 29	Cleveland, O. ..... Adv. Sept. 7.	Sept. 7
Oct. 1	Ponchatoula, La.	Aug. 3
Oct. 3	Haines City, Fla. ..... Adv. Sept. 7.	Sept. 7
Oct. 19	Newark, N. J.	Sept. 7

SEWERS

Sept. 8	Long Island City, N. Y.	Sept. 7
Sept. 11	Madisonville, Ky. ..... Adv. Aug. 31 and Sept. 7.	Aug. 31
Sept. 12	Sebring, O.	Aug. 31
Sept. 12	Wichita, Kan.	Aug. 31
Sept. 12	Rice Lake, Wis.	Sept. 7
Sept. 12	New York, N. Y.	Sept. 7
Sept. 13	West Park (Cleveland P. O.), O.	Sept. 7
Sept. 14	Jacksonville, Fla.	Aug. 31
Sept. 15	Hazard, Ky.	Sept. 7
Sept. 15	Eveleth, Minn.	Aug. 17
Sept. 19	Newark, N. J.	Aug. 24
Sept. 19	Hagerstown, Md. ..... Adv. Aug. 31 and Sept. 7.	Sept. 7
Sept. 20	Manchester N. H. ..... Adv. Aug. 31 and Sept. 7.	Sept. 7
Sept. 20	Denver, Colo.	Sept. 7
Sept. 21	Jacksonville, Fla.	Aug. 31
Sept. 21	Louisville, Ky. ..... Adv. Sept. 7.	Sept. 7
Sept. 23	Bloomington, Ill. ..... Adv. Aug. 31 and Sept. 7.	Aug. 31
Sept. 25	Hackensack, N. J. ..... Adv. Aug. 31 and Sept. 7.	Aug. 31
Sept. 26	Ft. Worth, Tex. ..... Adv. Sept. 7.	Sept. 7
Sept. 28	Lake Forest, Ill.	Aug. 31
Oct. 3	Toronto, Ont.	Sept. 7
Oct. 10	Syracuse, N. Y.	Sept. 7

WASTE DISPOSAL

Sept. 22	Trenton, N. J. ..... Adv. Sept. 7.	Sept. 7

BRIDGES

Sept. 11	California	Aug. 24
Sept. 11	Hillman, Mich.	Sept. 7
Sept. 13	Providence, R. I. ..... Adv. Sept. 7.	Sept. 7
Sept. 14	Tennessee	Aug. 24
Sept. 18	Ft. Worth, Tex.	Sept. 7
Sept. 18	Cambridge, Mass.	Sept. 7
Sept. 18	Indiana	Sept. 7
Sept. 20	South Norwalk, Conn. ..... Adv. Sept. 7.	Sept. 7
Sept. 26	Alabama	Aug. 31
Sept. 26	Toledo, O. ..... Adv. Sept. 7.	Sept. 7
Oct. 1	Siam	July 13
Oct. 6	Seattle, Wash.	Sept. 7
Oct. 31	Sydney, Australia	Jan. 12
Sept. 1, 1923	Sydney, New South Wales, Australia ..... Adv. Sept. 7.	Aug. 3

RAILWAYS

Sept. 15	New York	Sept. 7

EXCAVATION, DREDGING, IRRIGATION

Sept. 16	Ordway, Colo.	Sept. 7
Sept. 18	Plainfield, N. J. ..... Adv. Sept. 7.	Sept. 7
Sept. 21	St. James, Minn.	Sept. 7
Sept. 22	Wynne, Ark. ..... Adv. Sept. 7.	Sept. 7

STREETS AND ROADS

Sept. 9	Cleveland, O.	Sept. 7
Sept. 9	Paris, Ont.	Sept. 7
Sept. 9	Toronto, Ont.	Sept. 7
Sept. 11	Barrie, Ont.	Sept. 7
Sept. 11	Terrell, Tex.	Sept. 7
Sept. 11	Crescent City, Calif.	Aug. 17
Sept. 11	Michigan	Aug. 31
Sept. 11	Ebensburg, Pa.	Aug. 31
Sept. 11	Washington	Aug. 31
Sept. 11	Yonkers, N. Y. ..... Adv. Aug. 31 and Sept. 7.	Aug. 31
Sept. 11	Mamaroneck, N. Y.	Aug. 31
Sept. 12	Michigan	Aug. 31
Sept. 12	Mound City, Kan.	Aug. 24
Sept. 12	Bridgeton, N. J.	Aug. 24
Sept. 12	Hillsboro, N. C.	Sept. 7
Sept. 12	Mason, Tex.	Sept. 7
Sept. 12	South Dakota	Sept. 7
Sept. 12	New York, N. Y.	Sept. 7
Sept. 13	Bellaire, O.	Sept. 7
Sept. 13	Brooklyn, N. Y.	Sept. 7
Sept. 13	New Hampshire	Sept. 7
Sept. 13	Maryland ..... Adv. Aug. 31 and Sept. 7.	Aug. 31
Sept. 13	West Park (Cleveland P. O.), O.	Sept. 7
Sept. 14	Mobile, Ala. ..... Adv. Aug. 24 to Sept. 7.	Aug. 24
Sept. 14	Tennessee	Aug. 24
Sept. 14	Ft. Worth, Tex.	Sept. 7
Sept. 14	Ontario	Sept. 7
Sept. 15	St. George, N. Y.	Sept. 7
Sept. 16	Palo Pinto, Tex.	Sept. 7
Sept. 17	Ohio	Sept. 7
Sept. 18	Steubenville, O.	Sept. 7
Sept. 18	Charleston, Miss.	Aug. 24
Sept. 18	Minnesota	Aug. 31
Sept. 19	New Orleans, La.	July 6
Sept. 19	Quebec	Sept. 7
Sept. 19	Woodbury, N. J. ..... Adv. Sept. 7.	Sept. 7
Sept. 19	Maryland ..... Adv. Sept. 7.	Sept. 7
Sept. 19	Virginia ..... Adv. Sept. 7.	Sept. 7
Sept. 20	Denver, Colo.	Sept. 7
Sept. 20	New York ..... Adv. Sept. 7.	Sept. 7
Sept. 22	Duluth, Minn.	Sept. 7
Sept. 25	California	Sept. 7
Sept. 25	Lindsay, Calif.	Sept. 7
Sept. 26	Alabama	Aug. 31
Sept. 27	Wellington, Kan.	Sept. 7
Sept. 28	New Mexico	Sept. 7
Sept. 29	Tulsa, Okla.	Aug. 24
Sept. 29	Iola, Kan.	Sept. 7
Oct. 3	Anderson, S. C.	Aug. 31
Oct. 3	Washington	Aug. 31

INDUSTRIAL WORK

Sept. 9	Rochester, N. Y.	Sept. 7
Sept. 10	Wash., D. C.	Sept. 7
Sept. 11	Sacramento, Calif.	Aug. 31
Sept. 19	Detroit, Mich.	Sept. 7

BUILDINGS

Sept. 9	Phila., Pa.	Sept. 7
Sept. 11	Chicago, Ill.	Sept. 7
Sept. 11	Oakland, Calif.	Aug. 10
Sept. 11	Johnstown, Pa.	Aug. 31
Sept. 11	Pittsburgh, Pa.	Aug. 31
Sept. 11	Buffalo, N. Y.	Aug. 31
Sept. 12	Port Jervis, N. Y.	Aug. 31
Sept. 12	Tarboro, N. C.	Sept. 7
Sept. 12	New York, N. Y.	Sept. 7
Sept. 13	Detroit, Mich.	Sept. 7
Sept. 14	Nashua, N. H.	Sept. 7
Sept. 14	Piercetown, Ind.	Sept. 7
Sept. 15	Carbondale, Pa.	Sept. 7
Sept. 15	Atchinson, Kan.	Aug. 31
Sept. 15	Racine, Wis.	Aug. 31
Sept. 16	St. Thomas, Ont.	Aug. 24
Sept. 16	Galt, Ont.	Sept. 7
Sept. 18	Glens Falls, N. Y.	Aug. 31
Sept. 18	Cleveland, O.	Aug. 31
Sept. 18	Saratoga Springs, N. Y.	Aug. 31
Sept. 18	San Antonio, Tex.	Sept. 7
Sept. 19	Detroit, Mich.	Sept. 7
Sept. 20	Dearborn, Mich.	Aug. 31
Sept. 23	Port Huron, Mich.	Sept. 7
Sept. 27	Wash., D. C.	Sept. 7
Sept. 28	Ithaca, N. Y. ..... Adv. Sept. 7.	Sept. 7
Sept. 30	Duluth, Minn.	July 13
Oct. 1	Duluth, Minn.	Aug. 3
Oct. 3	Sacramento, Calif.	Sept. 7

FEDERAL GOVERNMENT WORK

Sept. 8	Stone and Breakwater — Phila., Pa.	Sept. 7
Sept. 10	Isolation Building — Wash., D. C.	Sept. 7
Sept. 12	Road—California	Sept. 7
Sept. 12	Hospital — Northampton, Mass.	Aug. 24
Sept. 13	Guard House, etc.—San Diego, Calif.	Aug. 24
Sept. 13	Hangar—Anacostia, D. C.	Aug. 31
Sept. 14	Dredging—Norfolk, Va.	Aug. 17
Sept. 15	Repairing Jetty—Providence, R. I. ..... Adv. Aug. 24 to Sept. 7.	Aug. 24
Sept. 15	Barges—New Orleans, La. ..... Adv. Aug. 24 to Sept. 7.	Aug. 24
Sept. 16	Roads—Fitzsimons, Colo.	Sept. 7
Sept. 18	Barges—Florence, Ala.	Aug. 24
Sept. 18	Turbine—Florence, Ala. ..... Adv. Aug. 24 to Sept. 7.	Aug. 24
Sept. 20	Quarters — Langley Field, Va.	Aug. 31
Sept. 21	Jetty Repairs—Jacksonville, Fla. ..... Adv. Aug. 24 to Sept. 7.	Aug. 24
Sept. 22	Cast Iron Mains, etc. — Fitzsimons, Colo.	Aug. 31
Sept. 26	Repairing Walls—Savannah, Ga. ..... Adv. Aug. 31 and Sept. 7.	Aug. 31
Sept. 27	Quarters — Ft. Bayard, N. M.	Aug. 31
Sept. 28	Dredging—Buffalo, N. Y. ..... Adv. Aug. 31 and Sept. 7.	Aug. 31
Sept. 28	Extension, etc.—Alexandria, La. ..... Adv. Sept. 7.	Sept. 7
Sept. 29	Post Office—Eureka, Utah. ..... Adv. Sept. 7.	Sept. 7
Oct. 5	Dredging — New York, N. Y. ..... Adv. Sept. 7.	Sept. 7
Oct. 6	Dredging — Wilmington, Del. ..... Adv. Sept. 7.	Sept. 7
Oct. 31	Dredging—Honolulu, H. T. ..... Adv. Aug. 31 and Sept. 7.	Aug. 31

MISCELLANEOUS

Sept. 12	Foundation — Des Moines, Ia.	Aug. 31
Sept. 12	Boardwalk — Long Branch, N. J. ..... Adv. Sept. 7.	Sept. 7
Sept. 13	Bulkhead—Chicago, Ill. ..... Adv. Sept. 7.	Sept. 7
Sept. 14	Piers—Stillwater, N. Y. ..... Adv. Sept. 7.	Sept. 7
Sept. 15	Foundation — Denver, Colo.	Sept. 7
Sept. 15	Piping, etc. — Hammond, Ind.	Aug. 24
Sept. 15	Portland Cement, etc.—New York, N. Y.	Sept. 7
Sept. 16	Strain & Pin Type Insulators —Melbourne, Australia	July 27
Sept. 16	Railroad Ties — Toronto, Ont.	Aug. 31
Sept. 23	Crane—Aberdeen, Wash. ..... Adv. Sept. 7.	Sept. 7
Oct. 2	Pier—Vancouver, B. C.	Sept. 7
Oct. 10	Steam Turbine, etc.—New Orleans, La. ..... Adv. Aug. 17 to Sept. 7.	Aug. 17
Nov. 4	Transformers, etc. — Melbourne, Australia	Aug. 17

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., New York—Bd. Purch., Municipal Bldg., received no bids Aug. 23, furnishing, delivering, unloading, stacking and storing high pressure c.i. pipe and special castings, for Dept. Water Supply, Gas & Electricity. Will readvertise. Noted Aug. 17.

N. C., Fayetteville—City retained W. C. Olsen, consult. engr., Kinston, to design and supervise construction of improvements and extensions to waterworks and sewerage systems. $250,000. Engineer will also report on advisability of construction of power plant. Noted June 8.

Mich., Eloise—Wayne Co. Poor Bd. plans 30,000 ft. 12 in. c.i. mains, etc., $90,000, also 500,000 gal. rein.-con. water storage

Waterworks (Continued)

reservoir, 80 ft. square, 13 ft. water depth, $15,000. Head, Decker Shoecraft & Drury, Eng. Bldg., Ann Arbor, engrs.

O., Martins Ferry — See "Industrial Works."

Minn., Kenyon—Having plans prepared concrete reservoir, 300,000 gal. capacity, also high service pump. $15,000. O. B. Strand, village recdr. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, engr.

S. D., Watertown—City Auditor rejected bids received Aug. 14, extending mains incl. 5,000 lin.ft. 4 in., 3,870 lin.ft. 6 in., 1,970 lin.ft. 8 in. c.i. pipe, also 1,540 lin.ft. 10 in. vitr. sewer. $20,000. W. T. Cochrane, city engr. Noted Aug. 10.

Mo., Pilot Grove—Making plans complete new waterworks. E. T. Archer & Co., 609 New England Bldg., Kansas City, engrs.

Tex., Shamrock — Attorney-Generals Dept., Austin, approved 100,000 bond issue for waterworks improvement, here.

Calif., Watsonville — Plans to vote on $200,000 bonds to purchase system of Watsonville Water Co.; plant improvements and extensions to exceed $50,000. H. B. Kitchen, city engr.

Ont., Ford—Plans to extend mains. $50,000. Prices wanted on pipe. W. Code, city engr.

Ont., Forest—Plans waterworks. $35,000. Chipman & Power, Mail Bldg., Toronto, engrs. Prices wanted on all materials.

Ont., London—Utilities Bd. plans extending waterworks to suburb of Broughdale. $40,000. E. V. Buchanan, Hydro Offices, engr.

BIDS DESIRED

N. J., Newark—Oct. 19, by North Jersey Dist. Water Supply Comn., 20 Clinton St., great notch tunnel and approaches.

Pa., Phila.—Sept. 12, by F. H. Caven, dir. pub. wks., perforated radial brick chimney, $20,000, also furnishing and installing 3 vacuum manual solution feed chlorinators, 75 to 300 lb. per day. C. E. Davis, City Hall, engr.

Fla., Haines City—Oct. 3, by Mayor and Council, waterworks and sanitary sewerage systems. J. R. Yale, clk. P. H. Norcross, 1404 Candler Bldg., Atlanta, Ga., consult. engrs.; adv. this issue.

O., Cleveland—Sept. 29, at office of Commissioner Purchases and Supplies, 219 City Hall, furnishing and laying about 10,400 lin.ft. 60 in. pipe, and other miscellaneous work. Alternate bids on c.i. pipe and steel pipe; A. V. Ruggles, Comr. Water; adv. this issue.

O., Hillsboro — Sept. 15, by J. Winegardner, clk. Bd. Trustees of Pub. Affairs, addition to waterworks including rein.-con. storage reservoir, 500,000 gal. capacity, drilling 1 new water well, equipping and connecting 3 water wells to compressor, pump and reservoir, etc. G. Champe, 610 Nasby Bldg., Toledo, civil engr.

O., Steubenville—Sept. 18, by R. P. Price, dir. Pub. Serv., furnishing 127 ton Class "C" c.i. pipe, f.o.b. Steubenville. B. M. Smith, clk.

O., West Park (Cleveland P. O.)—Sept. 13, c.i. watermains in Munn Rd., West 146th, West 147th, West 148th, West 149th and West 150th Sts., Yale and Orchardhurst Aves. To exceed $25,000. J. Reitz, City Hall, engr.

Minn., Duluth — Sept. 22, by W. H. Borgen, aud. St. Louis Co., laying 6 in. drain tile, 5.1 mi. State Job 2111, State Rd. 35 between Chisholm and Hibbing; 5.09 mi. State Job 2006, on State Rd. 35 between Chisholm and Buhl; 1 mi. Federal Aid Project 182, on State Rd. 35 between Mountain Iron and Virginia; 1.62 mi. State Job 2004 Div. 1, on State Rd. 35 between Mountain Iron and Virginia; 6.92 mi. State Job 2002, on State Rd. 35 between Gilbert and Biwabik; 2.08 mi. Federal Aid Project 202, on State Rd. 35 between Biwabik and Aurora; 2.71 mi. State Job 2102, on State Rd. 35 between Biwabik and Aurora; 3.78 mi. State Job 2103, on State Rd. 2 between Duluth and Carlton Co. line; 1.02 mi. Federal Aid Project 171, on State Rd. 2, between Duluth and Carlton Co. line; 6.89 mi. State Job 2101, on State Rd. 3 between Duluth and Lake Co. line; 1.03 mi. Federal Aid Project 201, on State Rd. 3 between Duluth and Lake Co. line. $70,000. R. W. Acton, Court House, co. engr.

Minn., East Grand Forks—Sept. 18, by city, 1 raw water and 1 clear water motor-driven centrifugal pump. A. N. Briggs, clk. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, engr.

Colo., Boulder — City Council receiving bids and opens same about Oct. 1, for earth and concrete reservoir, 8,000,000 gal. capacity, near present Chautauqua Reservoir. $100,000. J. Randolph, Boulder, engr.

Que., Iberville—O. Beaudouin, 71a St. James St., taking bids for mechanical gravity filtration plant, 500,000 gal. capacity; one steel hemispherical tank, 100,000 gal. capacity; four centrifugal pumps.

Ont., Toronto—See "Streets and Roads."

BIDS RECEIVED

R. I., Scituate — Water Supply Bd., Providence, opened bids building tunnel portion of Scituate Aqueduct, from Keystone Constr. Co., 210 South 13th St., Phila., $1,318,340, Winston & Co., 240 Fair St., Kingston, N. Y., $1,489,190; Patrick McGovern, Inc., 50 East 42nd St., New York City, $1,535,573.

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, opened bids Aug. 29, mains in Ocean Parkway, Concourse Dr. and Surf Ave., here, from C. DeBlasio, 539 7th Ave., Mt. Vernon, $22,919; Beaver Eng. Co., 51 Chambers St., New York, $23,887. Noted Aug. 24.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., opened bids Aug. 29, mains in Marginal St. west of New York Central R.R., Manhattan Boro, Astor, Birchall, Bronxwood, Fish, Grand, Mace, Morgan, Needham, Tyndall, Walcon and Young Aves. West 180th and Sagamore Sts., Rodman Pl., Unionport Rd. and Pelham Parkway, north, Bronx Boro, from J. A. Gregory, 351 East 124th St., $107,603; Knight & Demicco, 448 East Tremont Ave., $111,788; Beaver Eng. Co., 51 Chambers St., $114,527. Noted Aug. 24.

N. Y., St. George—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, opened bids Aug. 29, mains in Chelsea Rd., Bloomfield, Cannon, Drake, Hughes, Meredith, Merrill and South Aves., here, from N. DeStefano, 257 Glenn Ave., Tomkinsville, $66,669; Beaver Eng. Co., Chambers St., New York, $68,782. Noted Aug. 24.

O., Cleveland—Underpinning filter basin by placing 18,690 lin.ft. pre-molded sectional concrete piling, from Stange & Walsh, Sixth-St. Clair Bldg., $66,879; Lake Erie Constr. Co., Hickox Bldg., $67,754. Noted Aug. 17.

O., Lyndhurst (near Cleveland)—Laying 10,077 ft. 12-16 in. c.i. mains, from Martin & McDace, 1452 West 98th St., Cleveland, $51,754; B. J. Whittaker, 345 The Arcade, Cleveland, $54,201. Noted Aug. 17.

Calif., Sacramento—Rapid sand filtration plant and appurtenances, Contr. 24, from Mathews Constr. Co., Forum Bldg., $771,957; R. McLeran & Co., Hearst Bldg., San Francisco, $843,318; K. E. Parker Co., 519 California St. and Healy-Tibbitts Co., 9 Main St., San Francisco, $860,000. Engrs. est. $839,847. Noted July 27.

CONTRACTS AWARDED

N. C., Charlotte—Excavating and erecting filtration plant to Tucker & Laxton, Realty Bldg., $201,426; gate valves to Grinnell Co., Charlotte, (street address not available), $15,303; structural steel to Southern Eng. Co., Realty Bldg., $26,680; 2 venturi meters, to Builders Iron Fdry., 9 Codding St., Providence, R. I., $3,234; operating tables, wash troughs, dry chemical feed machines, effluent controllers, to Roberts Filter Co., Darby, Pa., $11,872; tank, tower, surge tank and wash water tank, to R. D. Cole Mfg. Co., Newnan, Ga., $45,500. Noted Aug. 10.

Fla., West Palm Beach—Installing pipe line for high pressure water system, to I. C. Mishler, West Palm Beach (street address not available), $15,700. Noted June 1.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving Akron-Wooster Rd., Wayne Co., monolithic brick, to Kavavaugh-De Niro Constr. Co., Youngstown, (street address not available), $58,307. Noted Aug. 3.

S. D., Emery—Waterworks system incl. 13,208 lin.ft. 5-8 in. c.i. pipe to O. N. Gjellefald, Forest City, Ia., $22,824, $60,000 gal. steel tank on 100 ft. tower to Pittsburgh-Des Moines Steel Co., 10th and Tuttle Sts., Des Moines, Ia., $5,766. Noted July 20.

S. D., Murdo—Waterworks system incl. 12,740 lin.ft. mains, pumping station, elevated tank, earth dam, hydrants, etc., to W. D. Lovell, 1415 8th St. S. E., Minneapolis, Minn., $27,000. Noted July 13.

Wyo., Saratoga—Waterworks, to J. E. Grum, Cheyenne, $27,118.

Tex., Halletsville—Lavaca Co., (a) clearing and grading, (b) steel and concrete bridges and draining, 11.07 mi. Highway 3-B, 16 ft., to W. T. Hutto & Sons, Gonzales, (a) $18,894; Gonzales Cement Wks., Gonzales, (b) $55,480. Noted August 31.

Ont., Port Dover—Waterworks system incl. 150,000 gal. tank, to Horton Steel Wks., Bridgeburg; 6 and 8 in. pipe to Natl. Iron Corp., Cherry St., Toronto, $0.97 and $1.37 per ft., hydrants and valves, to Dominion Steel Products, Brantford. Noted Aug. 24.

Ont., Timmins—For 3,800 lin.ft. 6 in. c.i. watermains and 3,300 lin.ft. 9 in. tile sewers, to L. Mascioli, Timmins, $40,000. Engr. est. $42,000.

Ont., Woodbridge — Watermains and pumping plant, to Standard Constr. Co., Mimico. Engrs. est. $30,000. Noted June 8.

Sewers

PROPOSED WORK

N. Y., Rochester—Plans series of sewage disposal plants, Maplewood Dist., to serve about 2,936 acres, $100,000; also sewage disposal plant, 3,000,000 gal. capacity, near Feldspar Company's factory. C. A. Poole, city engr.

W. Va., Williamstown—See "Streets and Roads."

O., Port Clinton—Sold $40,000 bonds for additional sewers throughout city. Engineer not announced.

O., Struthers—Plans election to vote on $36,644 bonds, grading and sewering Elm and Sexton Sts.; also sewering and sidewalking small streets. Engineer not announced.

Colo., Arvada—Had plans prepared and takes bids in October for 8-15 in. vitr. sewer, and septic tank 5,000 cu.ft. capacity. $63,276. Brew & Sydow, Kittridge Bldg., Denver, engrs.

Calif., Lodi — Having plans prepared 2,136 lin.ft. 20 in., 1,237 lin.ft. 24 in. and 6,027 lin.ft. 30 in. rein.-con. sewers. L. F. Barzellotti, city engr.

BIDS DESIRED

N. H., Manchester—Sept. 20, by E. R. Conant, Surv., Dept. Highways, outfall sewer and connections, etc.; adv. this issue.

N. Y., Long Island City—Sept. 8, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Brown Pl. from Grand St. to Whitlock Ave., Whitlock Ave. from Brown Pl. to Bittman St., Juniper Ave. from Whitlock to Caldwell Aves., Firth Ave. from Grand St. to Whitlock Ave., Bittman St. from Grand St. to Caldwell Ave., Caldwell Ave. from Juniper Ave. to Bittman St., with temporary connections to sewers in Juniper Ave. and Bittman St., 2nd Ward; Howland St. from Ditmars to Woolsey Aves., 1st Ward; repair to outlet flume from Jamaica sewage disposal plant to creek flowing into Jamaica Bay. Noted Aug. 10.

N. Y., New York—Sept. 12, by H. Bruckner, pres. Bronx Boro, sewers in West Kingsbridge Rd. between Reservoir and University Aves., Philip Ave. between Throggs Neck Blvd. and Logan Ave., Hollywood Ave. between Philip and Lafayette Aves., Lafayette Ave. between Edison and East Tremont Aves., East Tremont Ave. between Lafayette and Barkley Aves., Logan Ave. between Lafayette and Barkley Aves., Hollywood Ave. between Lafayette and Barkley Aves., Somner Pl. between Edison and East Tremont Aves., Liebig Ave. from end of existing sewer at north line of former Foster Estate about 225 ft. north of West 261st St. to city line, White Plains Ave. between Bear Swamp Rd. and Pelham Parkway S.

N. Y., Syracuse — Oct. 10, at office of Syracuse Intercepting Sewer Bd., 104 City Hall, machinery and equipment for sewage pumping station and grit chamber. H. J. Hamlin, secy.; adv. this issue.

Md., Hagerstown—Sept. 19, at offices of Sewerage Comn. in Police Headquarters Bldg., 25,000 lin.ft. 8-18 in. sewers, 9,500 lin.ft. 6 in. house connections and 400 lin.ft. 66 in. storm water sewer. E. L. Heard, secy.; adv. this issue.

Fla., Haines City—See "Waterworks."

Ky., Hazard—Sept. 15, by A. G. Taylor, clk., sanitary sewerage system. $50,000. J. N. Chester Engineers, Union Bank Bldg., Pittsburgh, engrs. Noted Aug. 31.

Ky., Louisville—Sept. 21, by Comrs. of Sewerage, for Bardstown Rd. Dist. Trunk sewer and drain, Sects. B and C, Spring Dr. West, sewer and drain. J. B. F Breed, ch. engr.; adv. this issue.

O., West Park (Cleveland, P. O.)—Sept. 13, by W. Dahm, dir. Pub. Serv., City Hall, storm and sanitary sewers in West 120th St. from Lynn to Cloverdale Aves., Melbourne Ave. from Lorain Ave. to West 159th St., Munn Rd. from Warren to Triskett Rds., West 140th St. from Lorain to San Diego Aves., Oak St. from West

Sewers (Continued)

from 140th to West 143rd Sts., Midland Ave. from West 120th to West 122nd Sts., West 159th St. from Melbourne Ave. to West Park Rd. To exceed $25,000. J. Reitz, City Hall, engr.

Wis., Rice Lake—Sept. 12, by O. G. Jensen, city clk., 15,740 ft. vitr. pipe sewer in Northwest Side Sewer Dist., incl. 4,100 ft. 10 in. vitr. pipe with 10-10 in. wyes, 9,300 ft. 8 in. vitr. pipe with 212-8 in. wyes, 1,945 ft. 12 in. vitr. pipe with 33-12 in. wyes, 385 ft. 15 in. vitr. pipe, 51 ft. manholes. J. H. A. Brahtz, 409 Metropolitan Opera House Bldg., St. Paul, Minn., engr.

Colo., Denver—Sept. 20, by Dept. Impvts. and Parks, 2 mi. 10-78 in. sewer Washington Park Storm Sewer Dist. 2, $481,810. Alternate bids on vitr. pipe and brick, concrete pipe, and segment block. A. K. Vickery, City Hall, engr. Noted Aug. 17.

Tex., Ft. Worth—Sept. 26, by Mayor and Bd. Comrs. at office of C. S. Snow, city secy., for sewage disposal plant. D. L. Lewis, city engr.; adv. this issue. Noted Aug. 31.

Ont., Toronto—Oct. 3, by C. A. Maguire, chn. Bd. Control, two 2,880,000 gal. centrifugal sewage pumps with motors. R. C. Harris, city engr.

Ont., Paris—See "Streets & Roads"

BIDS RECEIVED

N. Y., Brooklyn — E. Riegelmann, boro pres., Boro Hall, opened bids Aug. 30, relief sewer in (1) Pitkin Ave., (2) New York Ave., (3) East 39th St., (4) 18th Ave., (5) East 13th St., (6) 55th St., (7) Creamer St., (8) New York Ave., (9) Ridge Blvd., sewer basins on (10) southwest corner Foster Ave. and East 26th St., (11) northeast corner Ave. K and East 8th St., from D. Bonnacci, 672 Degraw St., (1) $20,047, (2) $14,246, (3) $9,029, (4) $6,894, (5) $5,873, (6) $4,609, (8) $2,613, (9) $2,536, (10) $536, (11) $417; Murphy Bros., 262 Bay 43rd St., (1) $27,471, (6) $4,609, (7) $3,793; G. L. Schrade, (1) $26,439, (2) $14,821, (3) $10,950, (4) $7,526, (8) $3,048; Tomassetti & Co., Inc., 1133 60th St., (2) $15,965, (7) $4,356; S. Ambrosio 1016 60th St., (5) $6,037, (6) $4,565, (9) $2,696, (10) $401, (11) $326; Nazzaro & Quierriero, 6712 11th Ave., (3) $10,029, (5) $5,863, (6) $4,798, (9) $2,904; J. Jennings, Belle Harbor, (7) $4,229; Manville Constr. Co., 1020 15th St., (8) $2,613; C. W. Buerher, (10) $428, (11) $333. Noted Aug. 24.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., opened bids Aug. 28, for sewers and appurtenances in (1) Newton Rd. from 12th to 13th Aves., (2) Homans Ave. from Van Horn St. to Queens Blvd., (3) Hosack St. from Morton to Weisse Aves., (4) Lewis Ave. from Wool to Van Horn Sts., (5) Proctor St. from Central to Myrtle Aves., (6) Atfield Ave. from Jerome to Liberty Sts., (7) 89th Ave. from Woodhaven Ave. to a point 160 ft. west of 92nd St. from Spinella & Muccini, 6102 18th Ave., Brooklyn, (1) $1,321, (2) $5,665, (4) $3,730, (5) $5,127, (6) $4,386, (7) $3365; E. J. Kelley, Jr., 1137 50th St. Brooklyn, (1) $1,343; Kennedy & Smith, 93 Amity St., Flushing, (1) $1,420, (3) $57,638 Type B; M. Paino, (2) $5,692, (5) $5,637; J. F. Clancey, Jr., 160 Lockwood St., Astoria, (2) $5,852, (5) $5,773; Seaside Contg. Co., 193 Beach 108th St., Rockaway Beach, (3) $73,532 Type A; L. Gallo, 203 Division St., Brooklyn, (3) $61,660 Type A, $53,793 Type B; Murphy Bros., 262 Bay 43rd St., Brooklyn, (3) $59,532 Type B; A. Manano, (4) $3,939, (7) $3,505; D. Gross, 895 Fulton St., Woodhaven, (4) $3,296, (6) $4,212, (7) $3,731; G. L. Schrade, (6) $4,592. Noted Aug. 24.

Mich., Detroit—Opened bids (1) Bates St. Sewer, Melbourne Ave. Arm in Melbourne Ave. from Brush St. to Woodward Ave., (2) Mound Ave. Arm Seven Mile Rd. Sewer in Mound Ave. from Seven Mile Rd. to Nevada Ave., (3) Raymond Ave. Extension in Raymond Ave. from Edgewood to Grinnell Aves., from W. Blanck & Co., 823 Ford Bldg., (1) $33,968, (2) $31,300; J. Wagner, West Grand Blvd., (1) $36,641; Jeynes & Affeld, 1208 Ford Bldg., (1) $35,550; C. R. Lennane, 2631 Woodward Ave., (2) $37,500, (3) $6,961; R. D. Baker, 1631 Elmhurst Ave., (2) $31,728; Detroit Drainage Constr. Co., 580 Concord Ave., (3) $7,875; Liberty Constr. Co., 1026 Detroit Savings Bank Bldg., (3) $5,700.

Mich., Springwells—B. P. Esper, village clk., opened bids building (1) Sect. 10 main sanitary sewer, incl. 3,447 ft. 42, 48, 60, 66 and 72 in. pipe, (2) Sect. 14, incl. 5,058 ft. 48, 54, 60, 66 and 72 in. pipe, (3) Sect. 15, incl. 3,068 ft. 36, 48, 69 and 81 in. pipe, from J. Wagner, 2735 West Grand Blvd., Detroit, (1) $61,878, (2) $90,862; Detroit Drainage Constr. Co., 5099 Lemay Ave., Detroit, (1) $64,568; J. Winterbottom, 18524 John R St., Detroit, (1) $73,828, (2) $111,115; J. Porath, 745 Griswold St., Detroit, (2) $108,055, (3) $70,743; Hammen & Co., 4612 Woodward Ave., Detroit, (3) $72,003; R. Mercier, 5435 Wesson Ave., Detroit, (3) $79,965.

CONTRACTS AWARDED

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., improvements to sewer in West 57th St. between 5th and 6th Aves., to Melrose Constr. Co., 103 East 125th St., $42,832. Noted Aug. 31.

N. J., Long Branch—Bd. Comrs., extending municipal sewer and building pumping station, to Monmouth Contg. Co., Red Bank, $18,000. Noted Aug. 10.

S. D., Emery—Sanitary sewers in various streets incl. 15,868 lin.ft. 8-12 in. pipe, to City Sewerage Co., Sioux City, Ia., (street address not available), $17,008; Imhoff tank to O. N. Gjellefald, Forest City, Ia., $3,775. Noted July 20.

S. D., Gregory—Sanitary sewerage system, to E. M. Scheflow, Elgin, Ill., $62,000. Noted July 13.

Calif., Arcata—For 3,225 lin.ft. 24 in., 380 lin.ft. 18 in. vitr. pipe, 250 yd. excav., 3,000 lin.ft. 6 in. vitr. sewers with wyes, to Chambers & De Golyer, Bacon Bldg., Oakland, $23,139. Noted May 11.

Ont., Timmins—See "Waterworks."

Waste Disposal

BIDS DESIRED

N. J., Trenton — Sept. 22, by Bd. of Comrs., Municipal Bldg., addition to present crematory. A. C. Gregory, Municipal Bldg., engr. of sewers and water; adv. this issue.

Bridges

PROPOSED WORK

N. Y., Ithaca—Comrs. Tompkins Co. plan rebuilding bridges destroyed by flood. $30,000. F. C. Evans, Co. Supt. of Highways.

Tex., Richmond — Attorney-Generals Dept., Austin, approved $100,000 bond issue for rebuilding and repairing Fort Bend County bridges, recently destroyed by flood.

BIDS DESIRED

New Hampshire — See "Streets and Roads."

Mass., Cambridge—Sept. 18, by city, steel bascule with approach spans, concrete abutments, 126 ft. long, 60 ft. wide, on 1st St. L. M. Hastings, city engr. B. Brown, 88 Broad St., Boston, consult. engr.

R. I., Providence—Sept. 13, at office of State Bd. Roads, Room 21, State House, Providence, constructing State Bridge 46 known as Hope Valley Bridge, in Hopkinton, No. 64 known as Usquepaug Bridge, in South Kingston, No. 153 known as Silver Creek Bridge, in Bristol; adv. this issue.

Conn., South Norwalk—Sept. 20, by C. L. Barton, mayor, removing steel work and masonry jack arches on south side of present bridge, and constructing 60 ft. span rein.-con. arch extension, 23 ft. wide; adv. this issue.

Pa., Ebensburg—Sept. 15, by H. T. Jones, controller Cambria Co., 3 rein.-con. bridges, one single span over Laurel Run in East Carroll, one over Solomons Run, Dale Boro., and one over Clapboard Run, Conemaugh Twp. $50,000. H. F. Dorr, Trust Bldg., engr.

Ohio—See "Streets and Roads."

O., Toledo—Sept. 26, by W. T. Jackson, Dir. Pub. Serv., constructing bridge over Swan Creek in line of Hawley St. G. A. Laska, secy.; adv. this issue.

Indiana—Sept. 18, by J. D. Williams, dir. State Hy. Dept., Indianapolis, constructing 31 ft. 6 in. steel truss bridge over Drainage Ditch, State Rd. 2-L, Whitley Co., 30 ft. rein.-con. girder over Half Mile Branch, State Rd. 4-P, Jackson Co., 4 x 4 ft. rein.-con. box culvert over Drainage Ditch State Rd. 5-B, Daviess Co., 182 ft. 7 in. skew type steel truss, (wood block floor and paint), over Pigeon Creek, State Rd. 10-A, Vanderburgh Co., 72 ft. skew type steel truss (substructure only), over Robbins Ditch, State Rd. 15-F, Starke Co., 18 ft. rein.-con. slab over Scott Ditch, State Rd. 27-C, Kosciusko Co., 16 ft. rein.-con. slab over Drainage Ditch, State Rd. 27-C, Kosciusko Co., steel truss bridge with three 198 ft. spans, also one 49 ft. span, (wood block floor and paint), over Wabash River, State Rd. 31-A, Vermillion Co. C. Gray, state engr.

Mich., Hillman—Sept. 11, by District Engr., Alpena, rein.-con. plate girder Bridge 600,401, on Trunk Line 32, Montmorency Co., incl. substructure two 21 ft. 6 in. rein.-con. abutments, 467.8 cu.yd Class B concrete, also concrete pier 21 ft. 9 in. high, 176.2 Class C concrete, 43,673 lb. reinforcing steel, superstructure, two 75 ft. spans, 20 ft. roadway, 480.3 Class A concrete, 106,852 lb. reinforcing steel.

Tex., Ft. Worth—Sept. 18, by Comrs. Tarrant Co. bridge over Marys Creek on State Highway 10, three 40 ft. girders, $26,245; bridge over Walnut Creek on State Highway 34, nine 20 ft. slabs, $19,997; bridge over Little Fossel Creek, on State Highway 40, six 10 ft. slabs, $5,295. R. V. Glenn, Court House, engr.

Wash., Seattle—Oct. 6, by Bd. Pub. Wks., superstructure of bridge Spokane St. over Duwamish Waterway, incl. bascule portion, 2 side spans each 140 ft., 135 ft. steel crossing, Bascule portion 45 ft. c. to c., 6 ft. sidewalks. Total length 288 ft., 45 ft. wide. $1,250,000. Former bids returned unopened. J. D. Blackwell, Hoge Bldg., engr. Noted Aug. 3.

BIDS RECEIVED

Alabama—State Hy. Dept., Montgomery, 3 concrete bridges, girder type on concrete piles, on Greenville-Camden Rd., Wilcox Co., from Fountaine, Lamb & McLemore, Hattisburg, Miss., $41,783; Keenan, Kyser & Gillis, Selma, $42,156; J. A. Peterson, Montgomery, (street address not available), $43,911. Noted Aug. 24.

Ohio—Dept. Highways and Pub. Wks., Columbus, opened bids Sept. 1, bridges in following counties: Guernsey Co., Sect. "K" National Rd., rein.-con., from Noble Bridge Co., Mt. Vernon, $9,565; F. A. Moorehead, West Jefferson, $9,765. Guernsey Co., Sect. "I" National Rd., concrete from Noble Bridge Co., Mt. Vernon, $9,076; F. A. Moorehead, West Jefferson, $9,326. Crawford Co., Sect. "G" Bucyrus-Cresline Rd., concrete arch, from Le Hafney & Auth, Toledo, (street address not available), $12,487; Scioto Constr. Co., Kenton, $12,697; O. C. Morrow, Cresline, $12,697. Butler Co., Sect. "C" Hamilton-Scipio Rd., concrete beam from V. F. Hughes, Hamilton, $4,169; J. Conrad, Hamilton, $4,251; Central Paving Co., Hamilton, $4,301. Butler Co. Sect. "J" Hamilton-Middletown Rd., concrete girder from C. C. Johns, Middletown, $1,797; Central Paving Co., Hamilton, $1,913. Noted Aug. 24.

CONTRACTS AWARDED

Pennsylvania—State Hy. Dept., Harrisburg, concrete bridge over Roystown branch of Juniata River near Tatesville, Bedford Co., to Concrete Steel Bridge Co., Clarksburg, Va., (street address not available), $30,235. Noted Aug. 24.

Pa., Mercer — To A. C. Dailey Co., Phillipsburg, Bridge 508, Deer Creek Twp., $1,607; to Minteer & Anderson, New Wilmington, Bridge 3011, Springfield Twp., $2,616, Bridge 2802, Shenango Twp., $6,000, Bridge 2308, Hickory Twp., $6,880; to A. McConnell, Mercer, Bridge 2307, Hickory Twp., $10,796. Noted Aug. 17.

Ia., Dubuque—Dubuque Co. 555 lin.ft. steel and concrete viaduct, 20 ft. wide, to Minneapolis Bridge Co., Metropolitan Life Bldg., Minneapolis, Minn., $56,000; culverts to Even-Uhlrich-Staner Co., Dubuque, (street address not available), $3,548.

Minn., Moorhead — See "Excavation, Drainage, Irrigation."

Tex., Hallettsville—See "Streets and Roads."

Tex., San Angelo—City and Tom Green Co., 500 ft. rein.-con. bridge, over North Concho River on Beauregard Ave., 40 ft., to Brown Abbott, Dallas, (street address not available), $60,671. Noted May 18.

Colo., Denver—Dept. Impvts. and Parks, 122 ft. rein.-con. bridge on Federal Blvd. and West 13th Ave., 63 ft. to R. M. Larson, 1309 Kalamath St., $26,706. Engrs. est. $35,000. Noted Aug. 10.

Dams

CONTRACTS AWARDED

Pa., Greenville—L. B. Taylor, concrete and wood dam across Shenango River on Smathers Estate, to Universal Constr. Co., Empire Bldg., Pittsburgh, $26,194. Noted Aug. 17.

Railways

PROPOSED WORK

Ohio—Municipal Ry. Co., Youngstown, (street address not available), plans rebuilding tracks in Parkview and Sherwood Aves., also repaving same within its

Railways (Continued)

boundaries. $25,000. Engineer not announced.

California—City and County of San Francisco will vote on $1,500,000 bonds about Nov. 21, for extensions to municipal railway system. M. M. O'Shaughnessy, city engr.

BIDS DESIRED

New York—Sept. 15, by Transit Comn., 49 Lafayette St., New York, installing tracks for 239th St. Yard of White Plains Rd. Rapid Transit R.R., etc. G. McAneny, chn.

CONTRACTS AWARDED

North Carolina—Cape Lookout Development Co., Beaufort, constructing 6 mi. railroad from Wades Beach to Cape Lookout and hotel at Cape Lookout, to Hancock & Davis, Beaufort.

Excavation, Drainage, Irrigation

PROPOSED WORK

Wis., Waupaca—Waupaca Co., F. D. Co. c/o C. W. Ross, secy., Manawa, having plans prepared and soon takes bids 1.5 mi. of 6-12 in. tile drain and about 3 mi. open ditch. $25,000. L. M. Schindler, 721 Clark St., Appleton, engr.

Calif., Live Oak — Dirs. Reclamation Dist. 2056, take bids about Sept. 15, 40 mi. ditches ranging from 3 ft. to 5 ft. deep, 6 ft. wide, 411,310 cu.yd. excav., 2,116 lin.ft. 12-36 in. concrete pipe culverts, 148 cu.yd. concrete. E. W. Stanton, Live Oak, engr. Noted Aug. 17.

Calif., Macdoel—Butte Valley Irrigation Dist. plans election soon to vote on bonds for irrigating 30,000 acres, constructing pumping plants, canals, etc. E. Bissell, Macdoel, secy. C. T. Darley, Klamath Falls, Ore., ch. engr.

Calif., Selma—Consolidated Irrigation Dist. having plans prepared for 8 concrete drops, 60 ft. long, 12 concrete drops, 40 ft. long, 20 in. concrete pipe line, etc. Voted $775,000 bonds to purchase works of Consolidated Irrigation Dist., and $75,000 bonds for above improvements. W. H. Shafer, Selma, engr.

Ont., Barrie—Simcoe Co. plans to dredge Nottawasaga River and reclaim 20,000 acres flooded lands. $50,000. Engineer, c/o Provincial Dept. Pub. Wks., Toronto.

BIDS DESIRED

N. J., Plainfield—Sept. 18, by Common Council, about 46,000 cu.yd. excav. from an old railroad embankment. A. W. Vars, city engr; adv. this issue.

Minn., St. James—Sept. 21, by A. G. Countryman, aud. Watonwan Co., Judicial Ditch 35, Sect. A, 141,400 lin.ft. 8-40 in. tile, 9,100 lin.ft. open ditch, 1 concrete double headwall, 144 lin.ft. 10-20 in. corrugated iron culvert pipe, 55 catchbasins, $171,862; Sect. B, 17,800 lin.ft. 8-20 in. tile, 5 catchbasins, surf inlet grates, 1 standard concrete headwall, etc., $12,250.

Ark., Wynne—Sept. 22, by Bd. Comrs. D. D. 3, Cross Co., Court House, constructing 53 mi. ditches, ranging from 6-30 ft. in bottom width. W. S. Newsom, Wynne, engr.; adv. this issue.

Colo., Ordway—Sept. 16, by Ordway D.D., 10 mi. open drainage ditch, 300,000 cu.yd. excav., 10 timber bridges, pile foundation, 828 ft. 18 in. vitr. pipe flush conduit culverts, spillways, flumes, etc. $70,000. F. E. Davis, secy. R. A. Sawyer, Ordway, engr.

Wash., Montesano—Comrs. Grays Harbor Co., opened bids Aug. 20, improving D. D. No. 4, incl. 600 acres, draining, dyking, filling streets and roads, (a) cement pipe, (b) galvanized drain pipe, from E. J. Cheatham & Son, Aberdeen, (a) $82,385 (b) $81,575; D. A. Foley & Co., Aberdeen, (a) $82,850 (b) $82,080; Parker & Schram Co., Aberdeen, (a) $89,150 (b) $87,195. Above bids rejected on account of time specified for finishing work. New bids, (naming time limit), will be called. Engrs. est. $90,000. Noted Aug. 10.

BIDS RECEIVED

Wash., Yakima—City Council opened bids Aug. 22, constructing irrigation laterals in district east of Northern Pacific R.R. tracks and north of Pacific Ave., from S. A. Campbell, Sunnyside, $72,096; Yakima Paving Co., Yakima, $82,403; Colucio & Erickson; Hinckley Bldg., Seattle, $75,576. Engrs. est. $72,397.

CONTRACTS AWARDED

Wis., Cross Plains—Dane Co. Farm Drainage Bd., Madison, excavating and laying tile drain in Dist. 7, incl. 39,000 cu. yd. tile drain, to Wisconsin Drainage Co., Elkhorn, $58,500. Engrs. est. $55,000.

Minn., Moorhead—Clay Co., Ditch 45, Lateral 1 and 2, to M. W. Barnard & Son, 612 Globe Bldg., Minneapolis, $36,955; bridges to J. A. Jardine, 1123 1st Ave. S, Fargo, N. D., $15,377. Noted Aug. 17.

Ont., Thedford—Bosanquet, Stephen, West Williams and McGillivray Twps., draining inundated area and reclaiming land to C. Vanslambrouck, Blenheim, $56,055. Noted April 20.

EXCAVATION GRANTS PASS, ORE.

Following are lowest bids opened Aug. 8, by Grants Pass Irrigation Dist., for excavation of main canal, Sta. 0 to Sta. 3.33 (except Sta. 6 to 26, completed), (A) P. Welch, Medford; (B) Pacific Bridge Co., East Salmon St., Portland; J. Hampshire, Grants Pass. The unit bids were as follows:

	C. Yd.	A	B	C
Schedule 1				
Class 1	800....	$0.30	$0.50	$0.40
Class 2	300....	.50	.65	.80
Class 3	100....	1.20	2.25	2.50
Schedule 2				
Class 1	80,000....	.30	.55	.39
Class 2	15,000....	.50	.56	.78
Class 3	2,600....	1.20	1.75	2.20
Schedule 3				
Class 1	6,000....	.30	.38	.39
Class 2	3,900....	.50	.54	.78
Class 3	100....	1.20	2.00	2.50
Schedule 4				
Class 1	40,000....	.30	.61	.55
Class 2	10,000....	.50	.64	1.25
Class 3	10,000....	1.20	2.10	2.50
Schedule 5				
Class 1	8,000....	.45	.39	.39
Class 2	500....	.75	.50	.78
Class 3	100....	1.20	2.00	2.50
Schedule 6				
Class 1	1,200....	.45	.56	.39
Class 2	500....	.75	.65	.78
Class 3	100....	1.20	2.00	2.50
Schedule 7				
Class 1	1,000....	.45	.42	.50
Extended totals.....		$73,580	$119,343	$119,930

Streets and Roads

PROPOSED WORK

N. Y., Mayville—Bd. Village Trustees plan bond election for widening and improving Main St., (a) cement road from gutter to gutter and gutters, $26,000, (b) cement through business section and tarvia on remainder, cement gutters $20,250. Engineer not announced.

N. Y., Niagara Falls—Plans paving 2,039 ft. alley between 5th and 6th Sts., 15 ft., either granite or wood block, asphalt, sheet asphalt, asphaltic concrete, fibre brick or bitulithic. $31,575. Estimate based on granite block. W. B. Bennett, Convention Hall, engr.

Pa., Beaver—Plans paving Insurance and Corporation Sts., 17 ft. wide, vitr. brick. $25,000. E. W. Tomlinson, boro. secy. Engineer not announced.

Pa., Clarion—Comrs. Clarion Co., and others, plan to improve road from Venus to Fryburg. $100,000.

Pa., New Castle—Plans to widen Mercer, Mill, North and Neshannock Sts., from 60 to 75 ft. $25,000.

Md., Baltimore—Plans paving, 6 or 7 in. cement concrete, 1-2-4, Weaver Ave., Glenmore Ave. from Sefton Ave. to point 760 ft. east, Glenoak Ave. from Glenmore to Royston Aves., Arabia Ave. from Weaver to Overland Aves., Glyndon Ave. from Carey to Bayard Sts., Cottage Ave. from Violet to Keyworth Aves., Tyndale Ave. from Parkside Dr. to Harcourt Rd., Harcourt Rd. from Tyndale to Eutaw Aves., Canterbury Lane from Berkshire to Tyndale Aves.; paving 1½ x 1½ sheet asphalt on 6 in. concrete Rueckert Ave. from Harford Rd. to Holder Ave., Elmley Ave. from Belair Rd. to St. Cloud Ave., Lyndale Ave. from Greenview to St. Cloud Aves., Batavia Ave. from Harford Rd. to Belmont Ave., Calverton Ave. from Frederick Ave. to Hollins St. R. K. Compton, 214 East Lexington St., engr.

W. Va., Moundsville — Liberty Dist., Marshall Co., voted $200,000 bonds for road work. A. Purdy, Moundsville, engr. Noted Aug. 10.

W. Va., Williamstown—Sept. 16, to vote on $75,000 bonds paving and laying sewers in 5th, Louise and Clay Sts. J. V. Dunbar, Williamstown, engr.

N. C., Dunn—Plans paving 6 mi. various streets, some type of asphalt on concrete.

N. C., Greensboro—Guilford Co. plans constructing 2 mi. new macadam and repairing 2 mi. old macadam and placing penetration top on road running northeasterly from County home, $25,000; repairing old macadam and giving same penetration top 8 mi. road from Summerville via Oak Ridge to Staffords Store, $40,000; grading and paving with asphalt on concrete 1.6 mi. road, to connect Pleasant Garden Rd. with the State Highway Oliverss, $40,000. W. C. Boren, Greensboro chn. Bd. Co. Hy. Comrs.

N. C., Lenoir—Comrs. Caldwell Co. authorized $100,000 bond issue for completing highway system, concrete or asphaltic concrete. G. C. White, Durham, engr.

Fla., Bushnell—Sumter Co. to vote on $50,000 bonds Oct. 1, constructing 8 mi. road from Bushnell to Rerdell via St. Catherine; $75,000 for road from Linden to St. Catherine Spec. Rd. Dist.; $60,000 for 8 mi. road from Oxford to Wildwood; $50,000 for 6 mi. road from Coleman via Adamsville to Leesburg Rd.; $40,000 for 8 mi. road from Sumterville to Outlet; $30,000 for 5 mi. road from Center Hill to Sloan Ridge; $70,000 for 11 mi. road from Bushnell to Weeds Laundry; $50,000 for 6 mi. road from Webster to Sloan Ridge. F. Cotton, Rerdell, engr.

Ala., Birmingham—Takes bids in about 60 days, grading, curbing, guttering and asphalt surfacing on concrete, 2 mi. 14th St. S. W., 24 ft., $108,000; 1½ mi. 14th Ave. S., 24 ft., $80,500. A. J. Hawkins, city engr.

Tenn., Manchester—Coffee Co. making plans constructing macadam road system, $400,000. N. H. Meriwether, co. engr. Noted June 1.

Ohio—Dept. Highways and Pub. Wks., Columbus, cancelled bids which were to be received Sept. 1, grading, bridging and paving 3.551 mi. Sect. "P" Columbus-Sandusky Rd., waterbound macadam. Noted Aug. 24.

Ind., Delphi—Carroll Co. plans grading and gravel surfacing 3 mi. Elmer Showalter Rd., 16 ft., $26,000. J. R. McCain, Delphi, engr.

Ind., Marion—Grant Co. plans grading and gravel surfacing 3.5 mi. Daniel Stuber Rd., 16 ft., $27,000. G. Swisher, Marion, engr.

Ind., Noblesville—Hamilton Co. plans grading and gravel surfacing 3 mi. Henry Brehm Rd., 18 ft., $26,000; 3 mi. John Rupe Rd., 18 ft. $25,500. J. S. Shannon, Noblesville, engr.

Mich., Detroit—Plans prepared grading and paving Six Mile Rd. from Woodward to Oakland Aves., and from Oakland Ave. to Grand Trunk Ry., 3½ in. sheet asphalt on 8 in. concrete, 4,800 cu.yd. excav., 6,160 sq.yd. sheet asphalt, 3,950 lin.ft. Medina curbing. $35,000. J. W. Reid, city engr.

Mich., Detroit—Plans grading and paving 3,400 sq.yd. Minnesota Ave. from John R to Brush Sts., $17,140, 2,040 sq.yd. Cherrylawn Ave. from Cortland to Fullerton Aves., $10,190, 8,090 sq.yd. Rochester Ave. from Linwood to Dexter Aves., $40,450, 7,140 sq.yd. Glendale Ave. from Woodward Ave. to John R St., $35,730, 3,000 sq. yd. Coplin Ave. from end of present pavement to Mack Ave., $15,050, 5,160 sq.yd. Montana Ave. from Woodward Ave. to John R St., $25,330, 760 sq.yd. Quincy Ave. from Gladstone to Hazelwood Aves., $3,930, 2,670 sq.yd. Smart Ave. from McDonald to Lonyo Aves., $13,350, 2,740 sq.yd. Dayton Ave. from McDonald to Lonyo Aves., $13,680, also 16 alleys, totaling $56,412. J. W. Reid, city engr.

Iowa, Elkader—Rejected bids opened Aug. 21 for 21,650 sq.yd. paving, 11,000 lin. ft. concrete curb and gutter, 6,450 cu.yd. excav. $52,000. M. Tschirgi & Son, 712 Amer. Trust Bldg., Cedar Rapids, engrs. Noted Aug. 17.

Tex., McKinney—McKinney Rd. Dist. of Collin Co. to vote on $450,000 bonds Sept. 26, for road improvements. F. W. Cawthon, co. engr.

Tex., Richmond — Attorney-Generals Dept., Austin, approved $500,000 bond issue for highway and road improvements in Rd. Dist. 1, Fort Bend Co. C. H. Kendall, Sugarland, co. engr. Noted June 15.

Tex., Seguin—Guadalupe Co. plans grading, gravel surfacing and building culverts on 10 mi. State Highway 3 east of here, 16 ft. S. C. McCarty, Seguin, engr.

Colo., Boulder—City Council opens bids about Sept. 19, paving 4,000 sq.yd. Pleasant St. and Pennsylvania Ave., bitulithic on rock, $15,000; 12,000 sq.yd. Mapleton Hill Dist., bitulithic on rock, concrete curb and gutter, $50,000; 12,000 sq.yd. 14th St. Dist., bitulithic on present base, $40,000. J. Randolph, Boulder, engr.

Calif., Redwood City—San Mateo Co. plans highway from point near Union Oil Station on Bay Shore Highway to El Camino Real near Tanforan race track. $32,000. G. A. Kneese, co. surv.

BIDS DESIRED

New Hampshire—Sept. 13, by F. E. Everett, comr. State Hy. Dept., Concord, constructing 1.5 mi. State Highway, 18 ft. in Rochester, crushed gravel, $25,000; also one 43 ft. span concrete bridge, in Sutton, $15,000. State Hy. Dept., Concord, engrs.

Streets and Roads (Continued)

New York—Sept. 20, by H. S. Sisson, comr. State Hy. Dept., Albany, improving highways in Franklin, Livingston, Onondaga, Otsego, and Rockland Counties; reconstructing highways in Cortland, Monroe and Ontario Counties. J. C. Finch, secy.; adv. this issue.

N. Y., Brooklyn—Sept. 13, by E. Riegelmann, boro pres., Boro Hall, repaving Union and 95th Sts., 16th and 15th Aves., etc., asphalt.

N. Y., New York—Sept. 12, by H. Bruckner, pres. Bronx Boro, paving West 230th St. from Bway. to Bailey Ave., Hornaday Pl. from Crotona Parkway to Honeywell Ave., both sheet asphalt on concrete; grading, setting, curb, paving, laying sidewalks, etc., on Whitlock Ave. from Southern Blvd. to bridge over Port Morris branch of New York & Harlem R.R., sheet asphalt on concrete; grading for width of 30 ft., centrally located, etc. Seymour Ave. from Waring Ave. to Dewitt Pl. and from Gun Hill Rd. to Burke Ave.; grading, setting curb, laying sidewalks, etc. on Whitlock Ave. from East 149th St. to Leggett Ave.

N. Y., St. George—Sept. 15, by J. A. Lynch, pres. Richmond Boro, Boro Hall, repaving roadway of Southfield Blvd. from Parkinson to Guyon Aves., concrete.

N. J., Woodbury—Sept. 19, by Bd. Freeholders Gloucester Co., constructing Swedesboro-Woodstown Rd. in Borough of Swedesboro and Woolwich and South Harrison Twps., 38,402 sq.yd. concrete pavement; resurfacing Delaware St., sheet asphalt on present reconstructed foundation. C. N. Steelman, clk. W. C. Cattell, co. engr.; adv. this issue.

Maryland—Sept. 19, by State Rds. Commission, Baltimore, building state highway Carroll Co., Contr. CL-31, Baltimore City, Contr. BC-42, Anne Arundel Co., Contr. AA-27, Prince George Co., Contr. P-39, St. Marys Co., Contr. SM-21, Dorchester Co., Contr. D 28. J. N. Mackall, chn.; adv. this issue.

Virginia—Sept. 19, by State Hy. Comn., Richmond, paving 4.75 mi. Project 125-A; 4.6 mi. Project 160; 5.01 mi. Project 168; 6.43 mi. Project 173, 6.27 mi. Project 202. G. P. Coleman, comr.; adv. this issue.

N. C., Hillsboro—Sept. 12, by Mayor, paving 1 mi. road, 13,000 sq.yd. concrete or asphalt with necessary curbing, etc. $40,000. W. M. Platt, Durham, engr. Noted July 21.

Ohio—Sept. 15, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Huron Co., Sect. "P" Columbus-Sandusky Rd., 3.551 mi., waterbound macadam, $39,154.

Perry Co., Sect. "S-1" Newark-New Lexington Rd., 1.22 mi., bituminous macadam, asphalt or tar, $35,318.

Stark Co., Sect. "D-2" and "E" Alliance-Minerva Rd., 3.96 mi., grading and drainage structures only, $37,642.

Tuscarawas Co., Sect. "A" Canton-Canal Dover Rd., 3 mi., grading and drainage structures only, $18,600.

Tuscarawas Co., Sect. "B" Canton-Canal Dover Rd., 2.299 mi., grading and drainage structures only, $19,349.

Tuscarawas Co., Sect. "E" Canton-Canal Dover Rd., 2.093 mi., grading and drainage structures only, $25,422.

Williams Co., Sect. "C" Stryker-Evansport Rd., 1.187 mi., grading and drainage structures only, $16,190.

Williams Co., Sect. "D" Stryker-Evansport Rd., 2.58 mi., grading and drainage structures only, $6,601.

Jackson Co., Sect. "K" Jackson-Pomeroy Rd., concrete bridge, $4,070.

Pike Co., Sect. "L-2" Columbus-Portsmouth Rd., rein.-con. bridge, $3,889. L. C. Herrick, dir. highways.

O., Bellaire—Sept. 13, by Trustees of Pultney and Twps., improving Neff-Sand Hill Rd., $47,000. W. J. Campbell, clk. of former; A. M. Brown, clk. of latter.

O., Cleveland—Sept. 9, by Bd. Comrs. Cuyahoga Co., Court House, paving S. O. M. Center Rd. 3 and 4, $324,724; Detroit Rd. 4, $132,178. A. J. Hieber, clk. F. J. Landere, Court House, engr.

Ohio, Cleveland—Sept. 9, by Bd. Comrs. Cuyahoga Co., Court House, paving Detroit St. from West Boulevard to Berea Rd., brick or granite. $46,262. F. J. Lander, Court House, engr.

O., Steubenville—Sept. 18, by R. P. Price, dir. Pub. Serv., grading and repaving, etc. 3rd St. from Ross to North Sts., 3rd St. from North to Market Sts., 3rd St. from Adams to South Sts., 3rd St. from South to Bates Sts., asphalt, rein.-con., brick or wood block. B. M. Smith, clk.

O., West Park (Cleveland P. O.)—Sept. 13, paving with brick, Nichols Ave. from Riverside Dr. to West 162nd St., West 119th, West 125th and West 126th Sts. from Lorain to Linnet Aves., West 120th St. from Lorain to Cloverdale Aves., West 139th St. from Lorain to Sacramento Aves., West 128th and West 129th Sts. from Lorain to Thrush Aves., Williams Ave. from Riverside Dr. to Overlook Rd., West 125th, West 132nd and West 120th Sts. from Linnet to Thrush Aves., West 123rd St. from Linnet Ave. to West 122nd St., West 119th St. from Lorain to Midland Aves., West 135th St. from Lorain to Cross Aves., West 123rd and West 125th Sts. from Lorain Ave. to Triskett Rd., Lucille Ave. from Riverside Dr. to West 159th St., Elsienna Ave. from Riverside Dr. to West 168th St., West Park Rd. from Lorain Ave. to Riverside Dr. $100,000. J. Reitz, City Hall, engr.

Minn., Duluth—Sept. 22, by W. H. Borgen, aud. St. Louis Co., gravel surfacing 1.5 mi. State Rd. 6, Federal Aid Project 190, between construction station 0 plus 00 at west corner of Sect. 6, Twp. 68 North, Range 21 West, and construction station 80 plus 03.2 near centre of Sect. 5, Twp. 68 North, Range 21 West, 3,300 cu.yd. gravel; 11.06 mi. State Rd. 6, State Job 2205, between construction station 883 plus 00, in southeast quarter Sect. 13, Twp. 67 North, Range 21 West, and construction station 1466 plus 08.4 near centre of Sect. 5, Twp. 68 North, Range 21 West, 24,330 cu.yd. gravel. $35,000. R. W. Acton, Court House, co. engr.

Kan., Iola—Sept. 29, by Comrs. Allen Co. paving 3.297 mi. Sect. A, King of Trails Highway, Federal Aid Project 127, $125,000, 3.123 mi. Sect. B, King of Trails Highway, Federal Aid Project 127, $120,000, both 18 ft. concrete, bituminous concrete or bituminous macadam. A. Stroup, co. engr.

Kan., Wellington—Sept. 27, by Sumner Co., 26 mi. paving, 18 ft. Alternate bids on one course concrete, bituminous filled brick, bituminous concrete and bituminous macadam. J. W. Mavity, co. engr.

South Dakota—Sept. 12, by State Hy. Dept., Pierre, grading 11.06 mi. Federal Aid Project 98, also building one 32 ft. beam span and one 45 ft. pony truss, Lincoln Co., 75,514 cu.yd. excav., 203 cu.yd. concrete, 57,400 lb. steel, 6.06 mi. Federal Aid Project 50, Sect. C, Sanborn Co., 109,855 cu.yd. excav., 70 cu.yd. concrete, 5,280 lb. steel; 6.49 mi. Federal Aid Project 104, also one 32 ft. beam bridge, Douglas Co., 48,500 cu.yd. excav., 240 cu.yd. concrete, 35,000 lb. steel, F. D. Hudgins, state engr.

ROAD WORK—MISSOURI

Bids were opened by State Highway Comn., Jefferson City, for constructing 13.07 mi. state road from Liberty to Excelsior, from (A) Haden & Austin, Hill and Market Sts., Houston, Tex.; (B) E. S. Merk, Kansas City; (C) W. M. Spencer, Independence. The unit bids were as follows:

	A	B	C
13,000 cu.yd. earth excavation	$0.50	$0.50	$0.50
38,662 cu.yd. sledged stone base	.90	.90	2.25
38,662 cu.yd. sledged stone base, ½ mi. haul	1.25	1.68	1.00
308,604 cu.yd. sledged stone base, additional ½ mi. haul	.08	.0625	.06
4,142 cu.yd. waterbound macadam	1.50	1.90	2.50
4,142 cu.yd. waterbound macadam, ½ mi. haul	1.50	1.85	1.00
33,064 cu.yd. waterbound macadam, additional ½ mi. haul	.08	.0625	.06
15,534 cu.yd. crushed stone furnished at quarry	1.50	1.90	3.00
15,534 cu.yd. crushed stone, ½ mi. haul	1.00	1.85	1.00
123,986 cu.yd. crushed stone, additional ½ mi. haul	.08	.0625	.06
310,680 gal. bituminous binder, Native asphalt	.....	.....	.....
310,680 gal. bituminous binder, oil asphalt	.18	.16	.16
310,680 gal. bituminous binder, refined tar	.....	.16	.15
3,000 lin.ft. 4 in. vitrified tile underdrain	.50	.54	.30
Extended totals	$239,186	$264,093	$286,564

ROAD WORK—CONNECTICUT

Following are lowest three bids opened July 26 by State Highway Comn., Hartford, for constructing Willimantic Rd., Coventry Twp. (A) L. Suzio Constr. Co., Meriden; (B) Arborio Rd. Co., Hartford; (C) A. Vito Constr. Co., Norwich. The unit bids were as follows:

	A	B	C
15,540 cu.yd. earth excavation	$1.00	$0.95	$0.95
1,000 cu.yd. borrow	1.00	1.00	1.00
3,060 cu.yd. rock excavation	2.00	2.25	3.00
Grubbing (lump sum)	250.00	500.00	.....
164 lin.ft. 14 in. c.i.c.	2.00	1.50	1.90
218 lin.ft. 18 in. c.i.c.	2.50	2.00	2.80
196 lin.ft. 20 in. c.i.c.	3.00	2.30	3.20
134 lin.ft. 24 in. c.i.c.	3.50	2.80	3.90
104 lin.ft. 30 in. c.i.c.	4.75	3.75	4.25
68 lin.ft. 36 in. c.i.c.	5.50	4.50	4.50
2,725 lin.ft. rubble drain	1.20	1.40	2.00
1,800 sq.yd. cobble gutter	.85	1.25	1.00
3,000 lin.ft. wire fence	.25	.22	.30
4,900 lin.ft. w.g. rail	.40	.48	.50
41,300 sq.yd. 3 in. bituminous macadam	.80	.85	.90
7,900 cu.yd. 7 in. n.s. base	3.20	3.75	3.50
1,500 cu.yd. 8 in. stone fill	2.00	2.25	2.00
280 cu.yd. new masonry	8.50	8.00	9.00
Extended totals	$96,918	$104,774	$108,703

ROAD WORK—WASHINGTON

Following are lowest three bids opened July 21, by C. H. Purcell, Dist. Forester, Portland, Ore., for constructing Shuksan-Austin Pass, Whatcom Co., (A) Dunning & Burnett, Bellingham; (B) Siems & Carlson, Spokane; (C) M. O'Reilly, Bellingham. The unit bids were as follows:

	A	B	C
30 acres clearing	$100.00	$300.00	$300.00
15 acres grubbing	100.00	200.00	400.00
91,000 cu.yd. rock excavation	1.00	1.20	1.28
20,000 cu.yd. common excavation	0.40	0.70	0.60
10,000 station yds. overhaul	.10	.08	.06
9.1 mi. finishing earth road	500.00	200.00	250.00
15 cu.yd. class B concrete in trestle footings	25.00	25.00	35.00
820 cu.yd. class C concrete in abutments	25.00	20.00	25.00
250 cu.yd. class C concrete in abutments	25.00	20.00	25.00
500 cu.yd. dry rubble	4.00	5.00	7.00
43,000 lin.ft. 18 in. corrugated metal pipe	5.00	2.50	2.50
100 lin.ft. 24 in. corrugated pipe	6.00	3.75	3.60
50 lin.ft. 36 in. corrugated pipe	8.00	5.55	7.50
1,100 lin.ft. piling	1.00	1.50	1.00
36,000 ft. b.m. frame trestle bents	50.00	65.00	75.00
2,500 ft. b.m. bulkheads, frame trestle bents	50.00	65.00	75.00
26.5 ton bridge steel in place	200.00	60.00	62.00
430 lin.ft. 2 x 2 cedar log culverts	1.50	2.50	3.00
100 cu.yd. hand-placed embankments	2.00	2.00	4.00
1 30-ft. span	700.00	900.00	900.20
5 40-ft. spans	900.00	1,200.00	1,250.00
1 5-ft. span	1,000.00	2,000.00	1,600.00
320 lin.ft. bridge deck	7.00	10.00	9.00
18 lin.ft. bridge deck	7.00	10.00	9.00
80 lin.ft. bridge deck	7.00	10.00	10.00
Extended totals, log culverts with timber trusses	$169,061	$187,553	$204,718
Extended totals, log culverts with framed trestle	146,776	168,168	181,552
Extended totals, concrete pipe with timber trusses	184,761	187,105	202,653
Extended totals, concrete pipe with framed trestle	162,476	168,020	179,488

Streets and Roads (Continued)

New Mexico—Sept. 28 at office State Hy. Comn., Capitol Bldg., Santa Fe, gravel surfacing Federal Aid Project 14-B, between Tesuque and Pojoaquo, Santa Fe Co., 4,221 cu.yd. gravel, 1,176.7 cu.yd. earth-clay plating, etc.; 9.318 mi. Federal Aid Project 72, between Pecos and Rowe, San Miguel Co., 24,507 cu. yd. excav., 2.254 mi. crowning and shaping, 14,519 cu.yd. one course crushed stone surfacing, 432.4 cu.yd. Class A and 78.8 cu.yd. Class B concrete, etc. L. A. Gillett, state highway engr.

Tex., Ft. Worth—Sept. 14, by Comrs. Tarrant Co. grading and gravel surfacing 12.6 mi. Cold Springs Rd. C-46, Arkansas Lane C-50, Denton Rd. C-52, Bludworth School Rd. C-53, Pleasant Glade C-55, 14-24 ft., 5,300 cu.yd. unclassified earth excav., 1,100 cu.yd. concrete in structure, 114,000 sq.yd. gravel surface. $65,000. R. V. Glenn, Court House, engr.

Tex., Mason—Sept. 12, by Comn. Court Mason Co., grading and gravel surfacing 14.25 mi. State Highway 9, from here north to county line, 16 ft., 1,500 cu.yd. concrete, 104,061 cu.yd. earth excav., 8,491 cu.yd. rock excav., 125,000 sq.yd. gravel surface, 126,157 lb. reinforcing steel. J. Gresham, Mason, engr.

Tex., Palo Pinto—Sept. 16, by E. L. Pitts, judge Palo Pinto Co., clearing, surfacing, grubbing and bridging 10.9 mi. State Highway 1, 18 ft., 87.8 acres clearing, 94,113 cu.yd. borrow, 47,243 cu.yd. earth excav., 12,458 cu.yd. solid rock excav., 114,738 sq. yd. bituminous macadam, 2,120.9 cu.yd. concrete, 38,247 cu.yd. crushed stone base, 268,648 lb. reinforcing. $320,000. G. W. Courter, co. engr.

Tex., Terrell—Sept. 11, by W. P. Williams, judge Kaufman Co., grading and clearing 10 mi. Hiram and Greenville Rd., Terrell Rd. Dist., 100,000 cu.yd. excav. L. M. Ferlet, Terrell, engr.

Colo., Denver—Sept. 20, by Dept. Impvts. and Parks, 2.5 mi. paving Bway. Paving Dist. 6, 60 ft., 62,400 sq.yd. asphalt. $166,500. A. K. Vickery, City Hall, engr. Noted Aug. 17.

California—Sept. 25, by State Hy. Comn., Sacramento, grading 7.8 mi. and paving 6.5 mi. with portland cement concrete, highway between Long Beach and Huntington Beach, Los Angeles and Orange Counties. A. B. Fletcher, state highway engr.

Calif., Lindsay—Sept. 20, by City Trustees, improving various streets, 6,000 cu.yd. grading, 425,000 sq.ft. 1½ in. warrenite on 2½ in. asphaltic concrete, 41,000 sq.ft. concrete gutters, 5,100 lin.ft. concrete curb, 575 sq.ft. concrete walks, etc. H. D. Watts, city engr. Noted Aug. 24.

Quebec—Sept. 19, by J. L. Boulanger, deputy of roads, Parliament Bldg., Quebec, paving 47,618 ft. Laprairie-Lacolle Highway, 14 ft., in St. Luc and St. Marguerite, Laprairie Parish, oiled macadam. M. Necktar, Dept. Rds., Quebec, engr.

Ontario—Sept. 14, by W. A. McLean, deputy minister of highways, Parliament Bldgs., Toronto, 25,000 sq.yd. macadam base course in Clarence and North Plantagenet Twps., Contr. 781. $30,000 to $50,000. G. Hogarth, ch. engr.

Ont., Barrie—Sept. 11, by A. W. Smith, town clk., 14,000 sq.yd. bituminous pavement on rein.-con. or concrete. $60,000. James, Proctor & Redfern, Ltd., 36 Toronto St., Toronto, consult. engrs.

Ont., Paris—Sept. 9, by C. B. Barker, town clk., and Frank Barber & Associates, Ltd., consult. engrs., 40 Jarvis St., Toronto, 5,883 sq.yd. cement concrete pavement, concrete curb, gullies and storm sewers on Dundas and Dumfries Sts. $28,000.

Ont., Toronto—Sept. 9, by F. Barber, engr. York Twp., 40 Jarvis St., 100,000 sq. ft. concrete sidewalks on Vaughan Rd., King Edward, Livingstone, Poulton, Queensdale, Robina, Summit, Thornhill, Windermere and Woodmount Aves., also 3,000 ft. 6 in. c.i. water mains in Kenora Crescent, Northcliffe Blvd., Helen, Schell, Gowan and Inwood Aves. $35,000.

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, opened bids Aug. 30, paving (1) roadway of Ave. U from Ocean to Flatbush Aves., preliminary 7 in. concrete (2) roadway of Amboy St. from Livonia to Lott Aves. (3) roadway Ave. H, excluding Mall spaces from Ocean Parkway to Coney Island Ave. (4) roadway Bay 28th St. from Bath to Benson Aves. (5) 53rd St. from 16th to 17th Aves., repaving (6) roadway Ridge Blvd. from 86th St. to Shore Rd. (7) Snyder Ave. from New York to Brooklyn Aves. (8) Sterling Pl. from Buffalo to Ralph Aves. (9) Wilson Ave. from Cornelia to Moffat Sts., curbing and paving (10) 61st St. from 18th to 19th Aves., all foregoing sheet asphalt on 6 in. concrete, grading and curbing (11) Troy Ave. from Crown to East New York Aves. (12) 16th Ave. from 75th to 79th Sts., grading sidewalk space, curbing and laying sidewalks where necessary (13) Glenwood Rd. between Brooklyn Ave. and East 40th St. from Soviero & Britten, 10111 114th St., Richmond Hill (1) $98,871; C. Gallagher, 745 Dean St. (1) $98,470; J. J. Guinan Contg. Co., 2314 Gravesend Ave. (1) $90,090; Borough Asphalt Co., 1301 Metropolitan Ave. (2) $16,107 (3) $17,302 (4) $5,999 (5) $6,951 (6) $44,158 (9) $26,152 (10) $7,303; Cleveland Trinidad Paving Co., Flushing (2) $16,028 (3) $19,273 (7) $10,157 (8) $7,902 (9) $25,841; Cranford Co., 52 9th St. (3) $18,818 (4) $6,079 (5) $7,173 (6) $45,801 (7) $9,895 (8) $7,788 (10) $7,494; Sicilian Asphalt Paving Co., 41 Park Row, New York (2) $15,510 (7) $10,047 (8) $7,661 (9) $27,273; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave. (4) $6,303 (5) $7,440 (6) $44,164 (10) $8,042; Grimm Constr. Co., 170 McKinley Ave. (11) $7,541 (12) $1,920 (13) $1,854; F. Persicano, 350 Fulton St. (11) $8,548 (12) $1,844 (13) $1,883; T. B. Scott, 671 Halsey St. (11) $8,541; L. Mangieri, 190 31st St., (12) $1,852; Park Slope Contg. Co., Inc. (13) $1,972. Noted Aug. 24.

N. Y., Lockport—Resurfacing West Ave., from Willite Constr. Co., 342 Madison Ave., New York, (patented willite) $34,895; M. Lardner, 267 Chestnut St., (asphalt) $33,340.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., opened bids Sept. 1, grading, curbing and laying sidewalks on (1) Potter Ave. from Van Alst to Goodrich Sts., (2) 101st St., grading and paving (3) Potter Ave. from Barclay St. to 2nd Ave., grading (4) Jackson Ave., (5) Hinman Ave., grading, laying sidewalks and paving (6) Chaffee St., curbing and laying sidewalks on (7) Opdyke St., paving (8) 101st St., from F. J. Clancy, Corona, (1) $11,899, (2) $41,998; Welsh Bros. Contg. Co., 32 Queens St., (1) $13,340, (4) $6,430, (5) $825; Kennedy & Smith, 93 Amity St., Flushing, (1) $15,965, (2) $40,195; Cranford Co., 52 9th St., Brooklyn, (2) $42,455, (8) $86,756; Cleveland Trinidad Paving Co., Flushing, (3) $36,916, (6) $6,386; W. J. Fitzgerald, 547 West 45th St., New York, (3) $37,048; Sicilian Asphalt Paving Co., 41 Park Row, New York, (3) $38,280, (6) $6,419; Peace Bros., 15 Lawrence St., Flushing, (4) $6,375, (5) $1,025; D. Pangolla, 481 Washington Ave., (5) $625; W. P. McDonald Constr. Co., 17 West 42nd St., New York, (6) $7,920, (8) $102,520; R. A. Hess, Inc., Corona, (7) $4,263; C. Kurth, 9519 126th St., Richmond Hill, (7) $4,288; J. J. O'Brien, Jr., (7) $4,338; Boro Asphalt Co., 1301 Metropolitan Ave., Brooklyn, (8) $98,700. Noted Aug. 24.

N. Y., New York—Park Bd., Municipal Bldg., opened bids Aug. 31, repaving heavy traffic road Southern Blvd. in southwest portion of Botanical Garden, Bronx Boro, from C. B. Beckwith, 2875 Bway., $24,841; Brewstar Constr. Co., $25,440; Asphalt Constr. Co., 208 Bway., $26,715. Noted Aug. 24.

N. Y., Niagara Falls—Paving 24th St. between Ferry and Pine Sts., Contr. 269, (a) sheet asphalt, (b) warrenite bitulithic, (c) 3 in. vertical fibre brick, (d) 3½ in. vertical fibre brick, from Read-Coddington Eng. Corp., 238 Portage Rd., (a) $27,694 (b) $26,306 (c) $30,935; J. F. McKinney Corp., Gluck Bldg., (c) $30,540 (d) $31,466. Engrs. ests. (a) $29,640, (b) $29,640 (c) $34,270 (d) $34,270.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, opened bids Aug. 29, reconstructing concrete roadway of Richmond Turnpike, etc., from J. Johnson Sons, 455 Bway., West New Brighton, $126,856; J. E. Donovan, $134,928; G. Vanderbilt, $136,501. Noted Aug. 24.

Alabama—State Hy. Dept., Montgomery, grading and gravel surfacing 12.265 mi. Greenville-Camden Rd., Ephram Branch to Pine Apple, Wilcox Co., from Lola & Humphries, Ridgeland, S. C., $151,493; Fountaine, Lamb & McLemore, Hattiesburg, Miss., $166,023; Keenan, Keyser & Gillis, Selma, $168,102. Noted Aug. 24.

Ohio—Dept. Highways and Pub. Wks., Columbus, opened bids Sept. 1, grading, bridging and paving roads with (a) brick (b) rein.-con. (c) plain concrete in following counties: Ashland Co., Sect. "D" Mansfield-Wooster Rd., 3.527 mi., from F. J. Mann & Sons, Ashland, (a) $50,016; P. H. Agerter, 114 South McDonald St., Lima, (a) $54,867. Hancock Co., Sect. "Arcadia" 0.461 mi., from Scioto Constr. Co., Kenton, (b) $30,118. Huron Co., Sect. "G-1" Oberlin-Norwalk Rd., 1.746 mi. from Hill & Hill, Elyria, (street address not available) (a) $52,477; A. J. Baltes, Norwalk, (a) $52,757. Noble Co., Sect. "K" Caldwell-Marietta Rd., 0.956 mi., from G. W. McElfresh, Caldwell, (c) $36,423. Wayne Co., Sect. "O" Wooster-Mansfield Rd., 3.355 mi., from Wilson-Miller Co., Barnesville, (a) $139,254; Cavanaugh-DeNiro Constr. Co., Youngstown, (street address not available) (a) $139,749; Holmes Constr. Co., Millersburg, (a) $140,047. Lake Co., Sect. "B" Cleveland-Buffalo Rd., 1.089 mi., from Gray Bros., Youngstown, (street address not available) (a) $53,937; E. A. Freshwater & Sons, Bucyrus, (a) $54,983. Marion Co., Sect. "H" Grade Separation, grading and paving, from Malloy & Seckel, Marion, (a) $10,666. Huron Co., Sect. "J-2" Bellevue-Norwalk Rd., constructing 2 ft. concrete curb, from Hill & Hill, Elyria, (street address not available) $4,693; Wood & Ogan, Norwalk, $4,789; C. M. Gray, Waterville, $4,874. Huron Co., Sect. "N" Oberlin-Norwalk Rd., 1.32 mi., concrete curb, from Hill & Hill, Elyria, (street address not available) $7,106; A. J. Baltes, Norwalk, $7,106; C. M. Gray, Waterville, $7,368. Huron Co., Sect. "O" Oberlin-Norwalk Rd., 1.28 mi., concrete curb, from Hill & Hill, Elyria, (street address not available) $6,636; C. M. Gray, Waterville, $6,890; A. J. Baltes, Norwalk, $6,905. Noted Aug. 24.

O., Cleveland—Paving East 55th St. from Harvard to Brow Aves., from Enterprise Paving & Constr. Co., 8444 Bway., $6,107; W. McDowell & Son, 10309 Miles Ave., $6,424; Kipling and Halliday Aves., from Ivanhoe to Nathaniel Rds., from Gould and Maybach, 823 East 150th St., $30,705, River Constr. Co., Schofield Bldg., $32,848. Noted Aug. 17.

O., Cleveland—Bd. Comrs. Cuyahoga Co., paving Royalton Rd. 5, 3,800 lin.ft. 4 in. concrete gutter, 1,200 cu.yd. excav., 10,000 sq.yd. 8 in. waterbound macadam, from Lake Erie Constr. Co., Hickox Bldg., $34,951, Pomano Bros., c/o Pavers Exch., Society for Savings Bldg., $35,865; Lee Rd. 4, 6,900 lin.ft. 4 in. brick gutter, 25,600 cu. yd. excav., 5,030 sq.yd. 7 in. concrete base, 1,860 sq.yd. Grade A wearing surface, 23,300 sq.yd. vitr. brick, from Freshwater Constr. Co., Natl. Bldg., $146,672, Enterprise Paving & Constr. Co., 8444 Bway., $142,681. Noted Aug. 10.

O., Columbus—Franklin Co. opened bids Aug. 30, grading, bridging and paving 16.3 mi. Alkire Rd., 16 ft., from W. M. Gray, 408 Fairwood Ave., asphalt, $224,871, tar, $227,811; A. C. Pickelheimer, Newtonville, $234,812. Noted Aug. 17.

Ind., South Bend—Comrs. St. Joseph Co. opened bids Aug. 21, gravel surfacing 3 mi. and concrete paving 0.8 mi. C. A. Carlisle Rd., 23,230 cu.yd. earth excav., 656 lin.ft. 12-36 in. corrugated pipe, from Rieth-Riley Constr. Co., Goshen, $103,800; J. C. Bontrager, Elkhart, $109,000; Bryant & Smelser, Plymouth, $118,340. Engrs. est. $92,000. Noted Aug. 17.

Michigan—State Highway Dept., Lansing, opened bids Aug. 15, grading and surfacing 5.721 mi. State Trunk Line Rd. 35-3, Delta Co., from Stephenson & Martell, Gladstone, $61,023; J. S. and W. J. Butler, Iron Mountain, $78,399; Delta Contg. Co., Escanaba, $80,489. Noted Aug. 10.

Wis., Milwaukee—Milwaukee Co. concrete surfacing, etc., Brown Deer-Menomonee Falls Rd., alternate bids (a) contractor furnishing cement, (b) state furnishing cement, from F. Hildebrand, Jr., 1043 23rd Ave., (a) $88,913, (b) $63,399; Froemming Bros., 1326 Humboldt Ave., (a) $89,046, (b) $63,216; Kroening Constr. Co., 39th Ave. and Mitchell St., (a) $95,109, (b) $66,759.

Ia., Pella—Opened bids Aug. 21, 36,200 sq.yd. asphalt resurfacing from E. Rasmussen, Pella, $1.20 per sq.yd.; Western Asphalt Paving Co., 1st and Nebraska Sts., Sioux City, $1.29; Wright Constr. Co., 211 Flynn Bldg., Des Moines, $1.33. Noted Aug. 10.

Wash., Seattle—Opened bids Aug. 25, paving Olive Way et al., 9,100 sq.yd. 6 in. sandstone, 1,000 sq.yd. 6 in. asphaltic base, 1,200 sq.yd. replaced asphalt, 2,600 sq.yd. 7 in. concrete, 2,900 lin.ft. asphaltic concrete curb, 3,500 sq.yd. two course concrete sidewalk, 12,000 cu.yd. earth excav., from Collucio & Erickson, Hinckley Bldg., $119,338, alternate $121,328, Olympic Constr. Co., 1326 Northlake St., $112,279, alternate $115,879, D. H. Traphagen, Walker Bldg., $123,275, alternate $124,475, engrs. est. $111,965; paving Lakedell Ave., et al., 7,360 sq.yd. 6 in. concrete, 3,320 lin.ft. concrete curb, 2,000 lin.ft. asphaltic concrete gutter, 1,850 sq.yd. concrete sidewalk, 2,700 cu.yd. earth excav., from J. L. Smith, Smith Bldg., $43,785, Collucio & Erickson, Hinckley Bldg., $44,767, engrs. est. $42,555.

California—State Hy. Comn., Sacramento, grading and gravel surfacing 9.33 mi. highway from westerly boundary and Central House, Amador Co., (1) 45,200 cu.

Streets and Roads (Continued)

yd. excav., (2) 16,400 cu.yd. gravel surface, (3) 515 cu.yd. Class A portland cement concrete (culverts and monuments), etc., from Blumenkranz & Vernon, Stockton, (street address not available), (1) $1.10, (2) $2.25, (3) $18, total $102,378; Isbell Constr. Co., Fresno, (street address not available), (1) $1.10, (2) $2.25, (3) $30, total $109,664; Wilmshurst & Manetas, San Francisco, (street address not available), (1) $1.23, (2) $2.65, (3) $25, total $118,927. Noted Aug. 1.

Calif., Belvedere — Improving various streets, 1,634 cu.yd. excav., 3,422 cu.yd. fill, 958 cu.yd. gravel surface, 1,480 ton asphalt or warrenite surfacing, 2,100 ft. sidewalks, from P. L. Burr, 512 Mission St., San Francisco, (using plain asphalt) $33,380; S. P. Brownlee, San Rafael, (street address not available), (using both plain asphalt surface and warrenite bitulithic) $34,800.

Calif., Fresno—Fresno Co., grading and paving Route 4, Sect. A, (1) 14,330 yd. excav., (2) 858,535 sq.ft. asphaltic concrete, from T. Hanrahan, 1361 P St., (1) $1.80, (2) $0.1633; California Constr. Co., Fresno, (street address not available), (1) $0.70, (2) $0.193; Thompson Bros., 1514 H St., (1) $1, (2) $0.199; Warren Constr. Co., Bacon Bldg., Oakland, (1) $0.45, (2) $0.214.

Calif., Healdsburg — Improving various streets, (1) 24,000 ft. concrete curb, (2) 5,500 lb. reinforcing, (3) 410,000 ft. 1½ in. warrenite bitulithic on 4 in. concrete, (4) 18,000 yd. excav., (5) 470,000 sq.yd. finish subgrade, (6) 1,500 sq.ft. ½ in. warrenite bitulithic on 5 in. concrete, (7) 48,000 sq. ft. concrete gutter, from Clark & Henery Constr. Co., 38 South Sutter St., Stockton, (1) $0.58, (2) $0.08, (3) $0.214, (4) $1.25, (5) $0.016, (6) $0.235, (7) $0.30; Warren Constr. Co., Bacon Bldg., Oakland, (1) $0.69, (2) $0.09, (3) $0.2225, (4) $1.50, (5) $0.0225, (6) $0.2435, (7) $0.29; Federal Constr. Co., Call Bldg., Oakland, (1) $0.65, (2) $0.10, (3) $0.23, (4) $1.65, (5) $0.03, (6) $0.25, (7) $0.30.

CONTRACTS AWARDED

Massachusetts—State Hy. Dept., Boston, bituminous macadam paving, 4,900 ft. highway, 18 ft. in Danvers, to Canton Eng. Co., Canton, $24,448; 6,500 ft. highway, 18 ft., in Holden, to McCabe & Giovanninni, 27 East Concord St., Boston, $47,938; concrete paving 14,700 ft. highway, 18 ft., in Leicester, to Bruno & Pettiti, 18 Tremont St., Boston, $187,092.

Conn., New London—Dept. Pub. Wks., cement concrete paving about 1 mi. Mohegan Ave., 18 ft., to Waterbury Concrete Constr. Co., 65 Jefferson St., Waterbury. Engrs. est. $25,000.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, paving Crown, East 15th Sts., Ave. L, Riverdale Ave., repaving 18th Ave. and resurfacing Diamond St., to Cranford Co., 52 9th St., $8,222, $8,813, $10,209, $3,163, $29,378 and $44,791 respectively; paving 10th Ave., East 2nd, 59th and 66th Sts., to Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., $6,787, $2,597, $7,619 and $6,124 respectively; Kermit Pl., to Borough Asphalt Co., 1301 Metropolitan Ave., $2,133; repaving Washington Ave., to J. Meehan & Son, 74 Cortland St., New York, $103,040; grading, curbing and laying sidewalks on East 15th St. and grading, curbing and flagging 10th Ave., to A. E. Castle, 3313 Tilden Ave., $3,151 and $1,013 respectively; recurbing and paving De Kalb Ave., to Sicilian Asphalt Paving Co., 41 Park Row, New York, $47,807. Noted Aug. 24.

N. Y., Buffalo—Paving Tuscorora Rd. and Ramsdell Ave., to Rock Asphalt & Constr. Co., Morgan Bldg., $57,266 and $16,170 respectively; Hutchison Ave., to H. P. Burgard Co., 1968 Fillmore Ave., $12,985, all specification B. standard asphalt on concrete.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., recurbing, reflagging and paving Dutch Kills St., and paving Pettit Pl., to Cleveland Trinidad Paving Co., Flushing, L. I., $7,764 and $3,174 respectively; paving North Jane St., to Astoria Contg. Co., 320 Grand Ave., $6,607; paving Howland St., grading, regrading, curbing and paving South Jane St. et. al., to Welsh Bros. Contg. Co., 34 Queens St., $5,731 and $24,780 respectively; paving 122nd (Brevoort) St. and recurbing and paving Bleecker St., to Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $3,130 and $2,968 respectively; grading, regrading and laying sidewalks on Crown Pl., to R. A. Hess, Inc., Corona, L. I., $2,056; grading, regrading, curbing and paving Van Alst Ave., to Peace Bros., Inc., 20 Main St., Flushing $14,470; grading, recurbing and laying sidewalks on 122nd (Brevoort St.), to H. J. Mullen Contg. Co., Jamaica Ave. and 144th St., Jamaica, $1,781, Gates Ave., to H. E. Kordes Co., Inc., 2577 Cooper St., Brooklyn, $3,855; grading 42nd St., grading, curbing, laying sidewalks and crosswalks on 81st St., and 126th (North Villa) St., to C. Kurth, 9519 12th St., Richmond Hill, $3,003, $3,538 and $1,128 respectively; grading, curbing, laying sidewalks and paving Gleane St., to Sicilian Asphalt Paving Co., 41 Park Row, New York, $10,448. Noted Aug. 31.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing, recurbing, flagging and reflagging 46th St., etc., and paving 7th Ave., to W. J. Fitzgerald, 547 West 45th St., New York, $63,637 and $12,566 respectively. Noted Aug. 31.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., repaving Broad St., etc., to W. J. Fitzgerald, 547 West 45th St., $45,734; 78th St., etc., to Asphalt Constr. Co., 208 Bway., $20,804. Noted Aug. 31.

N. Y., Rochester—Resurfacing Savannah St., to Rochester Vulcanite Pavement Co., Rochester, $16,170; paving Glasser St., to Ribstein-Holter Co., Rochester, $10,605; Klein St., to J. Frederich Co., Rochester, $14,730; Willowbank Pl., to T. Holohan, Rochester, $5,982; Kay Terrace, to Whitmore, Rauber & Vicinus, Rochester, $13,969, all asphalt. Street addresses for above contractors not available. Noted June 29.

N. Y., Waterloo—Paving 21,696 sq.yd. various streets, bituminous macadam, to E. W. Foley Contg. Co. Corp., 1 East Main St., $24,842. Noted Aug. 17.

N. J., Cape May—City Comrs., 23,000 sq.yd. cement concrete, to Mercer Constr. Co., Trenton, (street address not available), $56,309. Noted Aug. 10.

N. J., Freehold—Reconstructing Throckmerton St., 10,000 sq.yd. rein.-con., 4,000 lin.ft. curbing, 3,000 cu.ft. excav., to H. V. Oliver, 5 Spring St., New Brunswick, $32,200. Noted Aug. 17.

Pa., Ellwood City—Paving and grading North St., to Meniece & Riley, Ellwood City, $24,682.

Pa., Phila.—To H. B. Warren, Phila., (street address not available), paving Fayette Ave., $24,022; Curtiss Bros., Tacony St., paving Ferndale St., $2,065; T. L. Flannigan, 1204 East Montgomery Ave., paving Luzerne St., $22,681; Barber Asphalt Paving Co., Land Title Bldg., paving 22nd St., $35,773; F. Mark Constr. Co., Commercial Trust Bldg., paving Washington Lane, $3,043; J. Mehan & Sons, 915 West Dauphin St., paving Turner St., $2,630, 28th St., $6,903, Lombard St., $3,903; to Eastern Paving Co., Colonial Trust Bldg., paving Buist Ave. and Haines St., $27,339, Columbia Ave., Turner and Louden Sts., $18,488, Pittsville Ave. and 23rd St., $27,158, Torresdale Ave., $18,281. Noted Aug. 31.

Pa., Scranton—Lycoming Co., 2,600 ft. highway in Fell Twp., to H. B. Sproul Constr. Co., 218 Adams St., $31,427.

W. Va., Charleston—Comrs. Kanawha Co., concrete paving 2.72 mi. Montgomery West Rd., Sect. 4, to J. M. Randish & Co., Huntington, (street address not available), $48,929; 2.4 mi. Pratt West Rd., Sect. 5 and 2.63 mi. East Bank West Rd., Sect. 6, to G. T. Fogle, Charleston, (street address not available), $41,732 and $46,562 respectively. Noted June 15.

N. C., Henderson—Hardsurfacing various streets, to R. G. Lassiter Co., Oxford, $189,720. Noted July 27.

Alabama—State Hy. Dept., Montgomery, grading, concrete surfacing and 120 ft. steel span bridge on 4.82 mi. Montgomery-Selma-Union Rd., Dixie Overland Highway, Dallas Co., to Worthington & Co., 1st Natl. Bank Bldg., Birmingham, $139,698. Noted Aug. 24.

O., Columbus.— Franklin Co. aplying bituminous macadam top course on 1.34 mi. Boehm Rd., Plain Twp., 16 ft., to S. M. Woolsey, Marian, $29,301. Noted Aug. 10.

O., Marietta—Widening and resurfacing 2nd St., to Federal Asphalt Co., Main and D Sts., Hamilton, $39,976. Noted July 27.

Indiana—State Hy. Dept., Indianapolis, paving 18,480 ft. State Rd. 33, 16 ft., Lake Co., 32,833 sq.yd. concrete on concrete, to J. C. O'Connor & Sons, Ft. Wayne, (street address not available), $71,686, engrs. est. $75,000. Noted Aug. 10.

Michigan—State Hy. Dept., Lansing, grading and surfacing State Trunk Line Rd. 49-5, 2.773 mi. Sects. A, C and D, to A. Folks, Hanover, incl. 29.5 sta. grading, $10, 31,240 cu.yd. excav., $0.40, 50.4 cu.yd. 1:2:4 concrete, and 129 cu.yd. 1:3:6 concrete, $17, 23,830 sq.yd. gravel surfacing $0.57, total $32,432; 2.783 mi. Sect. B to Hoehle Constr. Co., Jackson, 16,647 cu.yd. excav., $0.40, 53.6 cu.yd. 1:2:4 concrete, $18, 44.5 cu.yd. 1:3:6 concrete, $17, 26,027 sq.yd. gravel surface, $0.40, total $21,111; 4.52 mi. Federal Aid Project 85, Lapeer Co., to Gohr Bros. Contg. Co., 310 South Capitol Ave., Lansing, $45,412; 4.875 mi. State Trunk Line Rd. 34-5, Hillsdale Co., to Nicholson & Brown, Mt. Pleasant, $37,707.

Mich., Royal Oak (Detroit P. O.)—Paving Lafayette St. from 1st St. to Ten Mile Rd., 15,000 sq.yd. concrete, to R. J. Powelson & Co., 6445 Iroquois Ave., Detroit, $37,518.

Wis., Mellen—Paving 8 blocks Bennett and Main Sts., 11,700 sq.yd. rein.-con., 5,175 lin.ft. curb and gutter, 1,600 cu.yd. gravel filling, 4,000 cu.yd. earth excav., etc., to Woodrich Constr. Co., 1141 Metropolitan Life Bldg., Minneapolis, Minn., $38,500. Noted Aug. 31.

Ia., Carroll—Paving 16,000 sq.yd. various streets, asphaltic concrete, to J. S. McLaughlin & Sons, Mankato, Minn., (street address not available), $2.49 per sq.yd.

Minn., St. Paul—Paving 40 blocks, 56,500 sq.yd. 3 in. creosoted wood block, to Fielding & Sheply, Inc., 216 University Ave., $257,593. Noted Aug. 31.

Kan., Ft. Scott—Bourbon Co. furnishing and applying tarvia on 11.5 mi. Horton St., Redfield, Humboldt and Pawnee Rds. to Barrett Co., 1st and Campbell Sts., Kansas City, Mo., $0.133 per gal.

Wyoming—State Hy. Dept., Cheyenne, surfacing (1) 8 mi. Yellowstone Highway, west of Casper, 24 ft., Federal Aid Project 85, Natrona Co., 12,600 cu.yd., engrs. est. $33,000; grading, surfacing and building culverts on (2) 3.1 mi. Moorcroft-Carlile Rd., 24 ft., Federal Aid Project 132, Crook Co., engrs. est. $47,000, (3) 8.2 mi. Kemmerer-Marbleton Rd., 24 ft., Federal Aid Project 136, Lincoln Co., engrs. est. $50,000, (4) 4.4 mi. New Castle-Four Corners Rd., 24 ft., Federal Aid Projects 27-A and 27-B, Weston Co., engrs. est. $61,000, (5) 8 mi. Yellowstone Highway from Powder River to Waltman, 24 ft., Niobrara Co., engrs. est. $41,000, (6) 12.2 mi. Fort Bridger-Dog Springs Rd., 24 ft., Uinta Co., engrs. est. $50,000; grading, surfacing, building culverts and 133 ft. timber treated span on (7) 1.8 mi. from Vantassel to State line, 24 ft., Federal Aid Project 131, Niobrara Co., engrs. est. $18,000, (8a) grading, (8b) building concrete culverts and bridge on 3.2 mi. Worland-Ten Sleep Rd., 24 ft., Federal Aid Project 108-E, Washakie Co., engrs. est. $31,000, (9a) grading and surfacing, (9b) concrete culverts and fords on 3.1 mi. Yellowstone Highway from Horse Creek to Little Bear Creek, 24 ft., Federal Aid Project 133, Laramie Co., engrs. est. $27,000 to R. V. Van Zant, Casper, (1) $19,240, W. L. Connelly, Lingle, (2) $31,456, (7) $12,859, Connelly & Bundy, Lingle, (3) $39,510, (6) $70,096, R. George, Rozette, (4) $51,864, Utah Constr. Co., Eccles Bldg., Ogden, Utah, (5) $27,903, Johnson Constr. Co. Basin, (8a) $14,361, C. E. Kensall, Burlington, (8b) $9,353, F. A. Bundy, Cheyenne, (address not available), (9a) $15,033, Levy Constr. Co., Symes Bldg., Denver, Colo., (9b) $5,485. Noted Aug. 17.

Mont., Laurel—Paving Main St., Federal Aid Project 57, 12,197 sq.yd. concrete, to Wickham Bros. & Schwieger, Lovell, Wyo., $46,900.

Tex., Dallas—Bd. Comrs., resurfacing Elm St. from Market to Ervay Sts., bituminous, to Central Bitulithic Co., Praetorian Bldg., $45,677.

Tex., Seguin—Guadalupe Co. surfacing 19 mi. State Highway 3 from here to Bexar Co. line, 16 ft., 198,992 lin.ft. concrete curbing 174,075 sq.yd. 1½ in. bituminous macadam, penetration method using 1 gal. asphalt and 0.06 cu.yd. limestone per sq.yd. to Haden & Austin, Hill and Market Sts., Houston, $110,000.

Colorado — State Hy. Dept., Denver, gravel surfacing 3.634 mi. Federal Aid Project 209, from 1¾ mi. northwest of Grand Junction toward Fruita, Mesa Co., to Hinman Bros., Craig, $37,822, engrs. est. $45,286; 8.341 mi. Sante Fe Trail from Hasty easterly toward Lamar, Federal Aid Project 218-A, Bent Co., Monaghan & Cunningham, 1710 Market St., Denver, $47,499, engrs. est. $58,925; paving 0.433 mi. from Arkansas' River Bridge north of Las Animas, extending south to Las Animas city limits, State Project 630, Bent Co., concrete, W. A. Colt & Son, Las Animas, $12,389, engrs. est. $13,184, 4.049 mi. Ft. Collins-Denver Rd., Federal Aid Project 221, Larimer Co., one course plain cement concrete, F. C. Dreher Constr. Co., Cooper Bldg., Denver, $124,842, engrs. est. $144,627. Noted Aug. 24.

Colo., Denver—Dept. Impvts. and Parks, concrete paving 12 blocks Alley Paving Dist. 85, to Stack Bros. Constr. Co., 338 South High St., $24,687. Engrs. est. $29,467. Noted Aug. 31.

Streets and Roads (Continued)

Nevada—State Hy. Comn., Carson City, grading (1) 3.76 mi. Route 9, Sect. A, Washoe Co., grading, surfacing and building culverts on (2) 3.7 mi. Reno-Lawtons Rd., Washoe Co., (3) 5.4 mi. Lincoln Highway from Grimes to Salt Wells, Churchill Co., (4) 8.52 mi. from west county line to Battle Mountain, Route 1, Sect. 1-A, Lander Co., to Baker Bros., San Francisco, Cal. (street address not available), (1) $30,783, (2) $59,491; Dodge Bros. & Dudley, Fallon, (3) $32,063; Boyd Bros., Halleck, (4) $39,100. Noted Aug. 17.

Calif., San Francisco—Bd. Pub. Wks., paving Ocean Beach Esplanada, Sect. D, to Healy-Tibbitts Constr. Co., 9 Main St., $54,609. Noted Aug. 17.

Calif., Santa Cruz—Santa Cruz Co. will grade and pave Lake Ave. in Pajaro Rd. Dist., 94,400 sq.ft. oil macadam, 2,186 cu.yd. excav., by day labor, under supervision of L. Bowman, co. surv.

Calif., Visalia — Improving Northwest 2nd, Northeast 3rd and 2nd Aves., et al., to Visalia Paving & Constr. Co., Visalia, (street address not available), $81,295. Noted Aug. 31.

Ont., Ottawa—Bd. Control paving Nicholas St., to O'Leary Ltd., Bank Natl. Bldg., Rideau St., $51,596; Sherbrooke Ave. and Gloucester St. to City Dept. Wks., $6,151 and $12,255 respectively. Noted July 6.

Industrial Works

PROPOSED WORK

N. Y., Tonawanda—Tonawanda Board & Paper Co. plans 1,000,000 gal. capacity water power plant, in connection with factory. To exceed $40,000. M. W. Simon, pres.

N. J., Camden—J. B. Van Sciver Co., Front and Federal Sts., plans 1 story, 32 x 50 ft. brick power house, in connection with new furniture factory, Front and Federal Sts. To exceed $40,000. Ballinger Co., 105 South 12th St., Phila., engrs.

Pa., Johnsonburg—Rolfe Tannery Co., Johnsonburg, plans to rebuild plant recently destroyed by fire. $150,000.

Pa., Phila.—Nahn & Greenberg, Morris Bldg., soon take bids 3 story, brick and stone garage and sales building, 1618 North Broad St. L. B. Rothchild, 1225 Sansom St., archt.

Pa., Phila.—Supplee-Wills-Jones Milk Co., 26th and Jefferson Sts., plans 3 story, 128 x 220 ft. dairy building, Folkrod St. $150,000.

Pa., Pittsburgh—Englert Mfg. Co., 2133 East Carson St., having plans prepared by H. Lang, archt., 1617 Brownsville Rd., 2 story, 68 x 120 ft., rein.-con., brick and tile factory, South 25th and Jane Sts.

Pa., Pittsburgh—Stroh Steel Hardening Process Co., Westinghouse Bldg., plans to alter and build addition to steel foundry, Chateau and Ridge Sts. $250,000. Private plans.

Pa., Warren—J. T. Newell, 244 Penna. Ave. W., having plans prepared by E. A. Phillips, archt., Warren Trust Bldg., 4 story, 55 x 90 ft. brick plant, Liberty St.

Pa., York—York Mfg. Co., plans 5 story, 60 x 100 ft. addition to factory. $300,000. Architect not announced.

Md., Salisbury—Hearn Oil Co., 3rd and Commerce Sts., Wilmington, Del., plans large storage and distributing plant, Mill St. $40,000. C. Hearn, mgr. Architect not announced.

W. Va., Logan—R. E. Matticks, having plans prepared by Means & Handloser, archts., Robson-Prichard Bldg., Huntington, 3 story, 52 x 120 ft., rein.-con. garage and repair shop. $40,000.

N. C., Weldon—Weldon Warehouse and Storage Corp., soon takes bids 1 story, 100 x 300 ft., cotton storage warehouse, brick and concrete. Hutton & Scheffler, Citizens Bank Bldg., Raleigh, archts.

Ga., Rome—B. M. Hood Brick Co., Candler Bldg., Atlanta, has purchased plant of Rome Fireproofing Co., here, and plans additions and improvements, $75,000. Architect not announced.

O., Cleveland—S. Richland, 8328 Quincy Ave., had plans prepared by M. Altschuld, archt., 5116 Woodland Ave., 1 story, 56 x 100 ft. garage, brick and steel, plain foundation, East 103d St., and St. Clair Ave. $40,000.

O., Dayton—Terminal Cold Storage & Ice Co., 772 Reibold Bldg., having plans prepared 3 story, 135 x 150 ft. storage warehouse, brick and concrete, $100,000. Private plans.

O., East Cleveland (Cleveland P. O.)—A. M. Gordon, 207 Schofield Bldg., Cleveland, had plans prepared by A. F. Janowitz, archt., Permanent Bldg., Cleveland, 2 story, 41 x 177 ft. brick and steel garage, Lakefront Ave. $50,000.

O., Martins Ferry—Nov. 7 to vote on $400,000 bonds, for reconstructing municipal electric light plant and waterworks. J. N. Chester Engineers, Union Bank Bldg., Pittsburgh, Pa., engrs.

Ind., Ft. Wayne—J. E. Ford, Douglas and Harrison Sts., having plans prepared by C. R. Weatherhogg, archt., Citizens Trust Bldg., 2 story, 150 x 250 ft., garage, rein.-con., brick and steel, Main St. $75,000.

Mich., Detroit—C. F. Smith Co., 625 West Grand Blvd., having plans prepared by A. Kahn, archt., 1000 Marquette Bldg., 8 story, 116 x 150 ft., rein.-con. and brick warehouse, plain foundation, Vinewood Ave. $150,000.

Mich., Flint—Fisher Body Ohio Co., East 140th St. and Coit Rd., Cleveland, O., having plans prepared by A. Kahn, archt., 1000 Marquette Bldg., Detroit, 2 story, 202 x 401 ft., rein.-con. and brick factory, plain foundation, Wilcox St.

Ill., Pana—Wadley Co., West North St., Indianapolis, Ind., plans 2 story, 63 x 115 ft. packing plant, rein.-con., brick and steel, here. $40,000. F. A. Winterrowd, Amer. Central Life Bldg., Indianapolis, Ind., archt.

Wis., Plymouth—Phenix Cheese Co. having preliminary plans prepared 2 story, 30 x 60 ft. top addition and 5 story, 30 x 60 ft. side addition, rein.-con., plain foundation. $60,000. R. A. Harbach, mgr. Private plans.

Colo., Loveland—City plans hydro-electric plant, 1125 kva. capacity, on Big Thompson River in Loveland Canon, $400,000. L. C. Osborn, city engr.

Ont., Kitchener—A. H. Koepke, 204 Frederick St., had plans prepared 2 story, 50 x 100 ft. mill, galvanized iron.

Alta., Calgary—Imperial Oil Ltd., Regina, Sask., plans refinery on 108 acre site, here, 3,500 bbl. capacity, on Bow River. $2,500,000. Engineer not announced.

BIDS DESIRED

R. I., Providence—United Electric Railways Co., Union Station, taking bids 1 and 2 story, 88 x 259 ft. garage and service station, brick and concrete, Melrose and Russell Sts. $100,000. Private plans. Noted Aug. 24.

N. Y., Rochester—Sept. 9, by W. Steele & Sons Co., archts., 16th and Arch Sts., Phila., factory, Plymouth Ave. near Barton St., here, for Electric Storage Baattery Co., 181 South Clinton St. Plans and specifications at office of Company.

D. C., Wash.—Sept. 10, by Corby Baking Co., 2301 Georgia Ave., N. W., 3 story, 76 x 110 ft. garage, work shop and power plant, rein.-con. and brick, $75,000. Private plans. P. M. Anderson, 705 Southern Bldg., engr.

Pa., Phila.—C. Wunder, archt., 1415 Locust St., taking bids 4 story, 66 x 99 ft. brick, steel and terra cotta factory, plain foundation, 15th and Master Sts., for Unique Knitting Co., 1324 North Lawrence St. $80,000.

Pa., Warren—Crescent Furniture Co., Warren, will build 4 story, 48 x 82 ft., brick and steel addition to plant and brick and tile dry kiln. Work will be done by separate contract. Private plans.

Ind., Indianapolis—Enquirer Printing & Publishing Co., 309-11 East Ohio St., taking bids 85 x 93 ft. brick and rein.-con. printing plant, East Ohio St. $225,000. R. N. Edwards, Union Trust Bldg., archt. Noted July 20.

Mich., Detroit—Sept. 19, by S. E. Remey, archt., 1140 Griswold St., 2 story, 70 x 140 ft. rein.-con., brick and steel garage, plain foundation, Dix Ave., for Kessler Sales & Service Co., 4627 Dix Ave., $40,000.

Ill., Chicago—R. S. Smith, archt., 111 West Monroe St., receiving bids 1 story, 95 x 125 ft. factory, rein.-con., brick and steel, 1809-17 Summerdale Ave., for McDonald Loose Leaf Co., 638 Federal St. $40,000.

CONTRACTS AWARDED

Mass., Cambridge—Cambridge Rubber Co., 748 Main St., 4 story, 83 x 102 ft., rein.-con. factory, to Scully Co., Cambridge. Archts. est. $100,000.

Mass., East Boston (Boston P. O.)—Boston & Lockport Block Co., 100 Condor St., 1 story, 90 x 170 ft. steel factory, to S. C. Sperry Co., 299 Main St., Cambridge. Archts. est. $35,000.

Mass., Malden—Yale Knitting Co., Sherman St., 4 story, brick and steel addition to plant, Sherman St., to Tredennick Co., 10 High St., Boston. Archts. est. $40,000. Noted March 2.

Mass., Waltham (Boston P. O.)—Wilkins-Potter Press, 77 Washington St., N. Boston, 1 story, 90 x 160 ft. printing building, brick, to S. C. Sperry Co., 299 Main St., Cambridge. Archts. est. $60,000.

N. Y., Falconer—Niagara, Lockport & Ontario Power Co., Hinman Rd., Lockport, 2 story, 60 x 100 ft., rein.-con. and brick sub-station, South Dow St., here, to Jamestown Constr. Co., 60 River St., Jamestown, Engrs. est. $50,000.

N. Y., Jamestown—General Metalsmiths Inc., 313 Prendgegast Ave., 1 story, 60 x 250 ft. factory, brick, to Chapman & Graham, 132 Blackstone Ave. Archts. est. $150,000.

N. Y., Jamestown—International Casement Co., 84 Hopkins Ave., 1 story, 75 x 150 ft., brick and concrete factory addition, Hopkins Ave., to Warren Constr. Co., Gokey Bldg. Archts. est. $40,000.

N. Y., New York—A. Jawitz Realty Co., c/o J. Fisher, archt. and engr., 25 Ave. A, will build 1 story, 100 x 200 ft. brick, steel and concrete garage, plain foundation, East 173rd St., by day labor. $75,000.

N. Y., New York—J. Pearlbinder, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build brick, steel and concrete garage, plain foundation, Westchester Ave., by day labor. $100,000.

N. Y., Woodhaven (Jamaica P. O.)—Propper Silk Hosiery Mills, Inc., 276 5th Ave., 3 story, 50 x 202 ft., brick and rein.-con. factory, plain foundation, to Barney-Ahlers, 110 West 40th St., New York. Archts. est. $100,000.

N. J., Trenton—Magnetic Pigment Co., 601 Cass St., 4 story, 65 x 110 ft., and 3 story, 40 x 60 ft., rein.-con., brick and steel additions to factory, Cass St., to N. A. K. Bugbee Co., 206 East Hanover St., $50,000.

Pa., Altoona—Caums Ice Cream Factory Co., 5th Ave. and 9th St., general contract 3 story, 25 x 120 ft. addition to factory, to J. C. Orr & Son, 7th Ave. and 5th St. Archts. est. $45,000. Noted Jan. 12.

Pa., Erie—Erie Co. Milk Assn., 2028 State St., 3 story, rein.-con., brick and steel warehouse, French and 20th Sts., to C. Schafer, 256 West 21st St. Engrs. est. $50,000. Noted Aug. 17.

Pa., Phila.—Horn & Hardart Bakery Co., 214 South 10th St., 3 story, 73 x 78 ft., rein.-con. and brick warehouse, plain foundation, Warnock and St. James Sts., to H. R. Rust, 19 South 8th St., $120,000.

Pa., Pittsburgh — Hardie Bros., 1601 Liberty Ave., 5 story, 100 x 325 ft. candy factory, 14th and Pike Sts., to Feltyberger & Reed, Peoples Bank Bldg. Engrs. est. $350,000. Noted March 30.

Pa., Starbreck (Warren P. O.)—Warren Steel Car Co., 1 story, 90 x 260 ft., brick and steel factory, to Hammond Iron Wks., Warren. Archts. est. $75,000. Noted Aug. 24.

N. C., Charlotte—Saco Lowell Shops, Realty Bldg., constructing home and mechanical building, Mint and Commerce Sts., to T. C. Thompson & Bro., 609 North Smith St., $150,000.

O., Alliance—Crescent China Co., Alliance, (street address not available), 1 story, 140 x 700 ft., brick and steel factory, to H. K. Ferguson Co., 6521 Euclid Ave., Cleveland. Archts. est. $250,000.

O., Cleveland—Amer. Ship Building Co., 4900 Division Ave., 1 story, 60 x 500 ft. factory, steel and corrugated iron, 4900 Division Ave., steel contract to Republic Structural Iron Wks., East 53rd St. and St. Clairs Ave. Archts. est. $120,000.

O., Cleveland—J. Bookatz, 656 East 99th St., 1 story, 66 x 120 ft. garage, brick and steel, Superior Ave. near East 103rd St., to Gross Bros., 2272 East 89th St. Archts. est. $50,000.

O., Cleveland—H. H. Bramson, Cadillac Bldg., 1 story, 75 x 115 ft. garage and store, brick and timber 725 East 125th St., to Peerless Constr. Co., Cadillac Bldg. Archts. est. $40,000.

O., Cleveland—Cyclone Fence Co., 1287 Marquette Ave., 1 story, 50 x 130 ft. factory addition, brick and steel 1287 Marquette Ave., to E. F. Gibbons Constr. Co., Prospect-4th Bldg. Archts. est. $40,000.

O., Cleveland—Yeiser Co., 1183 Holmden Ave., 1 story, 28 x 84 ft. machine shop, brick and steel, to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $40,000.

O., Cleveland—Wolf Envelope Co., 1749 East 22nd St., 1 story factory addition, brick and steel, 1749 East 22nd St., to A. A. Lane Constr. Co., 1869 East 55th St. Archts. est. $50,000.

O., Middletown—Gardner Harvey Paper Co., West 3rd St., 1 story, 200 x 396 ft.,

Industrial Works (Continued)

brick and concrete factory, to F. K. Vaughn, Hamilton, (street address not available). $125,000. Noted Aug. 24.

O., Warren—Youngstown Steel Co., Stambaugh Bldg., Youngstown, 2,000 ton structural steel for mechanical puddling plant, to Amer. Bridge Co., Frick Bldg., Pittsburgh, Pa. Noted May 25.

Mich., Detroit — A. Kahn, archt., 1000 Marquette Bldg., 2 story, 40 x 106 ft. rein.-con. and brick factory, plain foundation, Rose and 18th Sts., to F. N. Cooper, 6370 Gratiot Ave. Archts. est. $40,000. Noted June 29.

Mich., Detroit—A. Kahn, archt., 1000 Marquette Bldg., 4 story, 95 x 259 ft., rein.-con., brick and steel addition to automobile plant, Jefferson and Clark Aves., to H. G. Christman Co., 315 Stevens Bldg., for Studebaker Corp., Brush and Piquette Aves. Noted Aug. 3.

Mich., Detroit—Ford Motor Co., Highland Park, 1 story, 245 x 1,570 ft. rein.-con., brick and steel factory, Livernois Ave., to Walbridge Aldinger Co., 2356 Penobscot Bldg. Archts. est. $750,000. Noted July 20.

Wis., Appleton—Hermann Motor Car Co., 680 College Ave., 2 story, 80 x 80 ft., rein.-con. and brick garage, plain foundation, Superior St., to M. Boldt & Sons, 545 State Rd. Engrs. est. $40,000.

Wis., Bear Creek—H. A. Rasmussen will build 1 story, 50 x 90 ft., rein.-con. and brick garage, plain foundation, by day labor. $40,000. W. W. De Long, Appleton, (street address not available), archt.

Wis., Berlin—J. M. Stabbe will build 1 story, 50 x 120 ft., grist and feed mill, brick and rein.-con., plain foundation, by day labor. Private plans. Engrs. est. $40,000.

Wis., Marinette—H. A. White, 2000 Hall Ave., 1 story, 117 x 117 ft., rein.-con., brick and steel garage, plain foundation, to T. Klaver, 1861 Dunlap St. Archts. est. $40,000. Noted Mar. 23.

Wis., Peshtigo—Thompson Bros., will build 3 story, 60 x 100 ft. timber, factory addition, plain foundation, by day labor. Private plans.

Wis., Prescott—J. A. Miller, 1 and 2 story, 50 x 70 ft., rein.-con. and brick garage and repair shop, to S. M. McDonald, Prescott. Archts. est. $40,000.

Wis., Sparta — Gross-Overland Co., 1 story, 28 x 100 ft., brick and concrete garage, plain foundation, to Naset Bros., Sparta. Engrs. est. $40,000.

Kan., Kansas City—City Ice Co., 21st and Campbell Sts., Kansas City, Mo., refrigerating plant, 3,000 ton capacity, and car icing platform, brick and rein.-con., 14th and Muncie Sts., here, general contract to E. W. Sproul, 201 Oak St., Kansas City, Mo. Archts. est. $200,000.

Tex., San Antonio — State Bd. Control, Austin, (1) power house (2) oil storage tank (3) smoke stack, at Southeast Insane Asylum, here, to Coleman & Jenkins, Gunter Bldg., (1) $25,989, W. W. Lehr, South Medina St. (2) $2,315; Sumner & Sollet, Natl. Bank of Commerce Bldg. (3) $3,600. Noted Aug. 17.

Calif., Oakland—Star Motor Co. of California, East 14th St., brick and concrete warehouse, East 14th St., to P. J. Walker Co., Monadnock Bldg., San Francisco, $75,000.

Buildings

PROPOSED WORK

Mass., Cambridge—Bank and Office—Cambridge Savings Bank, having plans prepared by Newhall & Blevins, archts., 9 Park St., Boston, 5 story, brick, marble and stone, Dunster St. $250,000.

Mass., New Bedford—Lodge—Masonic Building Assn., c/o C. M. Baker, archt., 25 Arch St., Boston, having plans prepared 5 story, 66 x 148 ft., brick and limestone, Union St., $300,000.

Mass., Shrewsbury—High School—Plans 2 story, 70 x 160 ft. brick and steel. $150,000. C. R. Stacey, Supt. of Schools. Architect not announced.

Conn., Danbury — School — St. Josephs Roman Catholic Parish plans 2 story, brick and steel. $150,000. W. J. Dullard, 6 Robinson Ave., pastor. Architect not announced.

Conn., Greenwich—Lodge—Acacia Lodge 85, F. & A. M., 12 Havemeyer Pl., having plans prepared by F. G. C. Smith, archt., Smith Bldg., and G. B. Post & Sons, associated archts, 101 Park Ave., New York City, 2 story, 86 x 110 ft., brick and concrete, Havemeyer Pl., $150,000.

Conn., New Haven — Apartment — L. Miller, 162 Bishop St., having plans prepared by J. Weinstein, archt., Metropolitan Bldg., 4 story, Whitney Ave. $150,000.

Conn., Stamford—Church and School—Holy Name Roman Catholic Church having sketches drawn by H. F. Ludorf, archt., Mutual Bldg., New Britain, 1 story brick and stone church, and 2 story school. $200,000. F. Viardiz, pastor.

N. Y., Albany—Church—St. Peters Episcopal Church, c/o B. G. Goodhue, archt. and engr., 2 West 47th St., New York, having sketches made brick and stone, plain foundation, 107 State St., here. $150,000.

N. Y., Attica—High School—Voted $262,000 bonds Aug. 21, new high school.

N. Y., Batavia—Bank and Office—Bank of Batavia plans modern bank and office building. $150,000. Architect not announced.

N. Y., Buffalo—Office—G. B. Walbridge, 384 West Ferry St., plans office on 85 x 131 ft. site, Franklin and Court Sts. To exceed $500,000. Architect not announced.

N. Y., New York—Apartment—Forty Five Park Ave. Corp., c/o Rouse & Goldstone, archts. and engrs., 512 5th Ave., having plans prepared 9 story, 78 x 95 ft., brick, steel and stone, plain foundation. $700,000.

N. Y., New York — Apartment — H. Plough, 529 Courtlandt Ave., having plans prepared by C. Schaefer, archt. and engr., 394 East 145th St., 5 story, brick, steel and stone, plain foundation, Walton Ave. $250,000.

N. Y., New York—Church—Little Mount Zion Baptists, 234 West 136th St., having plans prepared 1½ story, 88 x 91 ft., brick and stone, plain foundation, 130 West 140th St. $200,000. W. A. Campbell, pastor. Private plans.

N. Y., Saranac Lake—High School—Plans to vote on $400,000 bonds for new high school. C. B. Cutler, c/o Bd. Educ., archt.

Pa., Altoona — Business — Central Trust Co., Central Trust Bldg., and J. Brett, 1309 11th Ave., jointly, having plans prepared by J. Hillard, archt., Hutchinson Bldg., 5 story, 100 x 120 ft. brick, steel and stone business block, 11th Ave. $150,000.

Pa., Bradford—Club—Piomingo Tribe 199 Red Men, plans brick clubhouse, Pine St. $150,000. Architect not selected.

Pa., Dallas—High School—School Bd. plans high school. $150,000 or more. Architect not selected.

Pa., Ebensburg—Hospital—Cambria Co. having plans prepared by W. R. Myron, archt., 1204 First Natl. Bank Bldg., hospital on Little Farm, near here. $150,000.

Pa., Grove City—Hotel—E. G. Herschaw and others, 1st Natl. Bank Bldg., plan hotel, Carruthers Park. $150,000. Owsley & Co., Youngstown, O., (street address not available) $150,000.

Pa., Juniata (Altoona P. O.)—Church—First Metodist Church, had plans prepared by A. W. Ruc[illegible]oh, archt., 107 Wadsworth Ave., Llyswen, 2 story, 104 x 124 ft., rein.-con., steel and stone, 8th Ave. $150,000.

Pa., Midland—High School—Bd. Educ. receiving sketches for 2 story and basement. $200,000.

Pa., Phila.—Apartment—J. Rosen, 5216 Parkside Ave., plans 3 story, 40 x 120 ft. brick and steel, plain foundation, 52nd and Parkside Aves. $200,000. Private plans.

Pa., Phila.—Church—H. D. Dagit & Sons, archts., 34 South 17th St., soon takes bids 2 story, stone, Mt. Airy Ave. and Boyer St., for Holy Cross Roman Catholic Church, 134th St. and Mt. Airy Ave. $200,000.

Pa., Phila.—Store and Office—W. Hering, 112 North 12th St., soon takes bids, 8 story, 60 x 70 ft. and 47 x 69 ft. rein.-con., brick, steel and stone, 114-122 North 12th St. $500,000. Ballinger Co., 12th and Chestnut Sts., archts.

Pa., Scranton—Store—New Wall Paper Co., 122 North Washington Ave., plans 4 story, 130 x 160 ft., brick, North Washington Ave. To exceed $150,000.

Pa., Sharon — Clubhouse — F. O. Eagles, plans clubhouse, North Water Ave. $150,000. Architect not selected.

N. C., Raleigh—School—Had plans prepared by C. G. Sayre, archt., Raleigh, (street address not available), for Wiley School, 3 story, 120 x 160 ft., brick, stone and concrete. $165,000.

Fla., Miami—Court House and Jail—Bd. Comrs. Dade Co. voted $650,000 bonds for court house and jail. R. A. Coachman, Jr. member Bd. Comrs. Noted Dec. 29.

O., Cleveland—Commercial and Apartment—J. Laronge, 214 Williamson Bldg., having plans prepared by Walker & Walker, archts, 1900 Euclid Ave., 4 story, 90 x 100 ft., brick and steel, northwest corner Euclid Ave. and East 63rd St. $250,000.

O., Cleveland—Sales—Schwegler & Co., 6501 Euclid Ave., having plans prepared by Walker & Weeks, archts., 1900 Euclid Ave., 4 story, 60 x 125 ft., concrete, brick and steel. 7023 Euclid Ave. $200,000.

O., Cleveland—Store—Ohio Sample Furniture Co., 2142 East 9th St., having plans prepared by Christian, Schwarzenberg and Gaede, archts., 1900 Euclid Ave., 3 story, 60 x 100 ft., brick, concrete and steel. 7029 Euclid Ave. $150,000.

O., Columbus—Dormitory—F. H. Olds, 112½ South High St., having sketches made by R. Sims, archt., Grand Theatre Bldg., 4 story, 50 x 150 ft., Neil Ave. $170,000.

O., Columbus—Office—United Commercial Travelers, 638 North Park St., having plans prepared by T. D. McLaughlin, archt., Savings Bldg., Lima, 2 story, 75 x 153 ft., brick and concrete, Park St. $250,000.

O., Findlay—Hospital—Home and Hospital Comn. plans large brick addition. Will mature in spring. $150,000. Architect not announced.

O., Mansfield—Industrial—Ohio State Bd. Control, Columbus, having plans prepared by R. S. Harsh, state archt., Ohio Bldg., Columbus, for industrial building at Mansfield Reformatory, here. $200,000.

O., Massillon—High School—Bd. Educ. having plans prepared by O. D. Howard, archt., 8 East Broad St., Columbus, 2 story, 160 x 171 ft., brick and concrete addition. $200,000.

O., Portsmouth—Hospital—Mercy Hospital having preliminary plans prepared by E. Brielmaier & Sons, archts., 432 Bway., Milwaukee, Wis., 3 story, rein.-con. and brick addition, plain foundation. $350,000.

O., West Park—High School—Bd. Educ., O. Juergens, clk., West 152nd St. and Lorain Ave., Cleveland, plans 3 story, brick, steel and concrete. $600,000. Architect not selected.

Ind., Connersville — High School—Bd. Educ. plans 2 story, brick, $150,000. E. E. Dunlap & Co., State Life Bldg., Indianapolis, archts.

Ind., Ft. Wayne—Church—New Congregational Church, c/o G. Mahurin, archt., Lincoln Life Bldg., having plans prepared, 2 story, 66 x 118 ft. and 56 x 97 ft. brick. $150,000.

Ind., Ft. Wayne — Church — Plymouth Church, c/o G. Mahurin, archt., Lincoln Life Bldg., having revised plans prepared, 2 story, 150 x 155 ft. brick and stone, Berry St. $150,000. Noted Jan. 12.

Ind., Ft. Wayne — Pharmaceutical — Wayne Pharmacal Co., 202-206 West Berry St., plans 4 story, 100 x 150 ft., rein.-con. and steel, Berry St. $225,000. Architect not selected.

Ind., Ft. Wayne—School—Bd. Educ. plans McCullough School, 1 story, brick, $250,000. G. Mahurin, Lincoln Life Bldg., archt.

Ind., Ft. Wayne—Temple—Mizpah Temple plans 3 story, brick and fireproof construction. $300,000. G. Mahurin, Lincoln Life Bldg., archt.

Ind., Indianapolis—Apartment—Windsor Realty Co., c/o George MacLucas, archts., Lemcke Annex, having plans prepared 3 story, 74 x 121 ft. brick, North Pennsylvania St. $150,000.

Ind., Indianapolis—Hotel—G. J. Marott, 18 East Washington St., plans 10 story, rein.-con., steel and brick, North Meridian St. $1,500,000. Vonnegut, Bohn & Mueller, 610 Indiana Trust Bldg., archts.

Ind., Indianapolis—Physicians Building D. W. Fossler, Hume-Mansur Bldg., having revised plans prepared by D. Graham, archt., Hume-Mansur Bldg., 10 story, 67½ x 195 ft., brick, steel and concrete, North Pennsylvania St. $800,000.

Ind., Indianapolis—Sales, etc.—Conduitt Automobile Co., 314 North Delaware St., having plans prepared by F. B. Hunter, archt., State Life Bldg. 3 story, 63 x 219 ft., brick and rein.-con. sales and service station, North Meridian St., $150,000.

Ind., Indianapolis—Sales, etc.—Olin Sales Co., 515 North Meridian St., plans 3 story, brick and fireproof, sales and service station, North Meridian St. $150,000. Rubush & Hunter, 430 Amer. Central Life Bldg., archts. Noted July 27.

Ind., Suth Bend — Dormitory — Notre Dame University plans 2 story, brick and stone, $150,000. P. Hefferman, 169 High St., Boston, Mass., archt.

Ind., South Bend—Dormitory——Notre Dame University plans 2 story, brick and stone, $150,000. J. P. Hefferman, 169 High St., Boston, Mass., archt.

Ill., Wilmette—Apartment-Hotel—Beach Manor Real Estate Impvt. Co., Wilmette, plans 9 story, 225 x 225 ft., brick, concrete,

Buildings (Continued)

steel, tile and stone. $1,500,000. R. L. Simmons, Elkhart, Ind., archt.

Mich., Ann Arbor — Apartment — University Housing Corp., Ann Arbor, having plans prepared by H. Angell, archt., 722 Free Press Bldg., Detroit, 3 story, 90 x 106 ft. brick and steel, plain foundation, University Ave. $175,000.

Mich., Detroit—Apartment—J. W. Wilson, archt., 17 Campus Martius, preparing plans 7 story, 115 x 155 ft. rein.-con., brick and steel, plain foundation, Marquette and Jefferson Aves. Owners name withheld.

Mich., Detroit—Apartment—H. Yannover, 1036 East Kirby Ave., having plans prepared by Kohner & Seeler, archts., 1402 Kresge Bldg., 10 story, rein.-con., brick and steel, plain foundation, Seward Ave.

Ill., Chicago—Store and Dance Hall—J. Marzano, 931 Polk St., having plans prepared by Levy & Klein, archts., 111 West Washington St., 2 story, 150 x 150 ft. store and dance hall. $500,000.

Wis., Beaver Dam—School and Auditorium—St. Patrick's Catholic Congregation, having plans prepared by F. L. Kronenberg, archt., Carroll Blk., Madison, and soon takes bids 2 story, 90 x 132 ft., rein.-con.., brick and stone, plain foundation. $150,000. A. J. Leist, Beaver Dam, pastor.

Minn., Eveleth—Hospital—Having plans prepared by E. H. Berg, archt., Eveleth, 5 story, rein.-con., brick and tile. $700,000.

Mo., Kansas City—School—Bd. Educ. having plans prepared by C. A. Smith, archt., 602 Finance Bldg., 2 story, 80 x 104 ft. rein.-con., brick and stone, incl. tile swimming pool, etc., 11th and Harrison Sts.

Tex., San Antonio—Hospital—Southwest Texas Baptist Hospital, had sketches made by W. N. Noonan, archt., Moore Bldg., 4 story, 80 x 145 ft. (1st unit), rein.-con., and brick, plain foundation, Nolan St. $100,000. Total when complete $1,000,000.

Utah, Provo—Municipal—City and Utah Co. plan improvements to municipal building. $150,000.

Calif., Berkeley—Library—Pacific School of Religion, c/o W. H. Ratcliff, Jr., archt., 1st Natl. Bank Bldg., having plans prepared library, brick, College Ave. $1,000,000.

Ont., Sandwich—School—Bd. Educ. soon takes bids 2 story, 116 x 166 ft. rein.-con., brick and steel, Felix Ave. $205,000. A. J. Riddell, 355 Sandwich St., archt. $205,000.

Hawaii-Honolulu — Stores and Offices — Castle Cook Steamship Co., Ltd., Honolulu, having plans prepared by C. W. Dickey, archt., 2149 Bway., Oakland, Calif., 3 story store and office building, fireproof construction, Class A. $420,000.

BIDS DESIRED

N. H., Nashua—Bank—Sept. 14 (change of date) by Second National Bank, 185 Main St., brick, steel and stone, plain foundation. $200,000. Mowbray & Uffinger, 56 Liberty St., New York City, archts. and engrs. Noted Aug. 17.

N. Y., Ithaca—Laboratory—Sept. 28, by C. D. Bostwick, Comptroller, Cornell University, addition to laboratory building at New York Veterinary College, Cornell University (south wing, James Law Hall). L. F. Pilcher, Capitol, Albany, state archt.; adv. this issue.

N. Y., New York—School—Sept. 12, by Supt. Bd. Educ., 500 Park Ave., for P. S. 64, brick, steel and stone, Walton Ave. and East 171st St. $500,000. C. B. J. Snyder, Concord St. and Flatbush Ave., Brooklyn, archt. and engr.

Pa., Carbondale—School—Sept. 15, by Secy. Bd. Educ., 3 story, 19 room, brick, to be known as Roosevelt School, Salem and Spring Sts. $200,000. L. Hancock, Jr., 1010 Mears Bldg., Scranton, archt.

Pa., Phila.—Apartment—Sept. 9, by L. B. Rothchild, archt., 1225 Sansom St., 3 story, 39 x 105 ft. brick, stee land stone, plain foundation, 21st and Venango Sts., for Venango Realty Co., c/o architect.

Pa., Phila.—Store and Office—Hoffman-Henon Co., archts., Finance Bldg., taking bids 2 story, 30 x 110 ft. rein.-con., stone and marble, plain foundation, 15th and Spruce Sts. $200,000. Owner's name withheld.

N. C., Tarboro—High Schools—Sept. 12, by R. E. Sentell, supt. Public Schools of Edgecombe Co., Tarboro, constructing high school at Crisp, school at Speed, and Western Edgecombe High School. To exceed $150,000. J. M. Kennedy, Merchants Bank Bldg., Raleigh, archt.

O., Cleveland—Apartment—S. Selden and S. Passov, 789 East 99th St., taking bids and opens same about Sept. 10, 3 story, 122 x 128 ft., brick and timber, Superior Rd. $150,000. M. Altschuld, 5116 Woodland Ave., archt. Noted July 27.

O., Columbus—School—Sept. 18, by Bd. Educ. at office E. L. McCune, clk., Ohio Natl. Bank Bldg., improving Dana Ave. School; John Burroughs School, West Sullivant Ave., and Pilgrim School, Taylor Ave. H. D. Smith, 50 East Town St., archt. Noted Aug. 17.

Ind., Piercetown—School—Sept. 14, by A. J. Menzie, trustee, 2 story, 72 x 104 ft., brick. $150,000. Griffith & Goodrich, 211 East Berry St., Ft. Wayne, archts.

Mich., Detroit—School—Sept. 13, by Bd. Educ., 1354 Bway. Ave., 2 story, 91 x 92 ft. addition to Neinas School, also 1 story, 55 x 70 ft. playroom, rein.-con., brick, steel and stone, plain foundation, McMillan and Military Aves. $150,000. Malcolmson, Higginbotham & Palmer, 405 Moffat Bldg., archts.

Mich., Detroit—Hotel—Sept. 19, by C. D. Lundblad, archt., 206 New Telegraph Bldg., 4 story, 35 x 200 ft. brick and steel, plain foundation, Woodward Ave. $175,000. Owner's name withheld.

Mich., Port Huron—School—Sept. 23, by Bd. Educ., 3 story, 116 x 268 rein.-con. and brick, plain foundation. $250,000. Van Leyen, Schilling, Keough & Reynolds, 3440 Cass Ave., Detroit, archts. Noted July 20.

Ill., Chicago—Apartment—P. F. Olsen, archt., 127 North Dearborn St., receiving bids 3 story, 100 x 124 ft., rein.-con., brick and steel, Cornelia and Janssen Sts., for W. L. Wuerzinger, 10 North Clark St., $200,000.

Ill., Chicago—Bank and Office—Sept. 11, by Holabird & Roche, archts., 104 South Michigan Ave., 14 story, rein.-con., brick and steel addition, Clark and Monroe Sts., for Chicago Trust Co., c/o architects. $1,000,000.

Ill., Chicago—Hotel—P. F. Olsen, archt., 127 North Dearborn St., receiving bids 3 story, 120 x 155 ft., rein.-con., brick and steel, Sheridan Rd. and Airdrie Pl., for Silverman & Goldberg, c/o architect. $375,000.

Ill., Kenilworth — Apartment-Hotel — O. C. Harris, 189 West Madison St., Chicago, receiving bids 9 story, 225 x 225 ft., rein.-con., brick and steel, Sheridan Rd. and Lake Michigan Ave., here. $1,500,000. E. L. Simmons, Elkhart, Ind., archt.

Wis., Milwaukee—Club House and Auditorium—R. Messmer & Bros., archts., 221 Grand Ave., receiving bids and opens same about Sept. 12, 3 story, 50 x 120 ft., 45 ft. high, brick and concrete, plain foundation, 11th and State Sts., for Amer. Luther Assn., 283 11th St. $150,000.

Wis., Sheboygan—Theatre—Rex Theatre, 10 North 8th St., taking bids 1 and 2 story, 50 x 110 ft., brick, rein.-con. and stone, plain foundation, 8th St. $150,000. W. C. Weeks, 630 Ontario St., archt.

Tex., San Antonio—Market House—Sept. 18, by City Secretary, 2 story, 100 x 500 ft., rein.-con., plain foundation, Market Plaza, $200,000. Dielman & Spillman, 306 East Commerce St., archts. and engrs. Noted Feb. 9.

Calif., Sacramento—Library, etc.—Oct. 3, by Dept. Pub. Wks., Div. Engineering, constructing library, courts and office building, marble, tile, stone and terra cotta. To exceed $150,000. G. B. McDougall, Forum Bldg., archt.

Ont., Galt—Collegiate—Sept. 16, by Cameron & Ralston, archts., Bartlett Bldg., Windsor, 3 story, 30 room, rein.-con., brick, steel, tile and stone, for Bd. Educ. $300,000.

BIDS RECEIVED

N. Y., Albany—School—Bd. Contract & Supply, City Hall, opened bids Aug. 28, general contract P. S. 20, 3 story, 62 x 196 ft. with 32 x 89 ft. wing, brick, North Pearl St., from W. G. Sheehan Constr. Co., 28 Dewitt St., $191,364, McCann Building Co., 68 State St., $203,400, C. P. Boland, 30 4th St., Troy, $204,000; heating work from Austin Eng. Co., 121 West 42nd St., New York, $29,772, J. Hunter Heating & Contracting Co., 68 Liberty St., $30,990, E. W. Tompkins & Co., 27 Grand St., $31,950. Noted Aug. 17.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York, opened bids Aug. 29, P. S. 16, Wilson St. near Bedford Ave., here, from C. Meads Co., 217 West 14th St., New York, $174,100; G. Colon, 81 West 125th St., New York, $189,766; F. M. Kelly Co., $194,945. Noted May 18.

N. Y., New Brighton—High School—Bd. Educ., 500 Park Ave., New York, opened bids Aug. 29, addition to Curtis High School, Hamilton Ave. and St. Marks Pl., here, from G. Colon Co., 81 East 125th St., New York, $457,308; T. Dwyer, Bway. and 216th St., New York, $459,000; G. Dekente, $490,000.

O., Greenfield—High School—Bd. Educ., opened bids Aug. 31, 2 story, brick, stone and concrete, from Danis-Hunt Constr. Co., 907 Schwind Bldg., Dayton, $234,000; Stacy Constr. Co., Grant and Broad Sts., Columbus, $236,986; D. W. McGrath & Son, 255 East Broad St., Columbus, $238,000.

CONTRACTS AWARDED

Mass., Dorchester (Boston P. O.)—Bath House—Park Dept., 33 Beacon St., Boston, 1 and 2 story, 87 x 370 ft. brick, here to Alco. Constr. Co., 178 North St., Boston, $193,000.

Mass., Medford — Hospital — Lawrence Memorial Hospital, Governors Ave., 3 story, 50 x 150 ft. with 40 x 75 ft. ell, brick and steel, also 3 story, 40 x 60 ft. service building, Governors Ave., to Evatt Constr. Co., 161 Devonshire St., Boston. Archts. est. $200,000.

N. Y., New York—Apartment—Ards Building Corp., c/o G. A. Bagge & Sons, archts. and engrs., 299 Madison Ave., will build brick, steel and stone apartment, plain foundation, Fort Washington Pl. and 181st St., by day labor. $250,000.

N. Y., New York—Club House—Intercollegiate Cosmopolitan Club, 2929 Bway., 9 story, 128 x 168 ft., brick, steel and stone, 520 Riverside Dr., to M. Eidlitz & Son, Inc., 41 East 42nd St. Archts. est. $750,000. Noted Aug. 3.

N. Y., New York—Store and Office—Burroughs-Wellcome Co., 18 East 41st St., 12 story, 45 x 100 ft., brick, steel and stone, plain foundation, 9 East 41st St., to Fountain & Choate, 110 East 23rd St. Archts. est. $1,250,000.

N. J., Newark—Bank—Guilbert & Bettelle, archts. and engrs., 2 Lombard St., brick and steel, for North Ward Bank, to C. R. Hedden, 228 South 7th St. Archts. est. $300,000. Noted June 29.

Pa., Ambler—High School—Bd. Educ., 2 story, 73 x 161 ft., brick, steel and stone, plain foundation general contract to Barnes & McLoughlin, 17 South 17th St., Phila., $97,900, total est. $150,000. Noted June 22.

Pa., McKeesport—School—Holy Trinity Catholic Congregation, 133 7th Ave., 2 story, 73 x 130 ft., brick and tile, 7th Ave., to Blair & Mack, 1409 Library Ave. Archts. est. $150,000.

Pa., Phila.—Office—Phila. Realty Bd., 1126 Walnut St., 3 story, 36 x 103 ft., 13th and Spruce Sts., to F. A. Havens Co., 845 North 19th St. Archt. est. $200,000. Noted Aug. 10.

Pa., Phila. — Sanitarium — Bd. Pub. Health, City Hall, general contract, 1½ story, 35 x 148 ft. with two 43 x 90 ft. wings, brick and stone, plain foundation, at Byberry, to G. H. Evans Co., 109 North 13th St., $119,430.

Pa., Pittsburgh—Home—Little Sisters of Poor, c/o P. Wall, 705 Preble Ave., and R. M. Trimble, archt., Ferguson Bldg., 3 story, 53 x 220 ft., Benton Ave., to Landau Bros., 125 1st Ave. Archts. est. $200,000.

Pa., Pittsburgh — College — Duquesne University, Bluff St., 4 story, 161 x 164 ft., Bluff St., to H. Busse Co., Wabash and Main Sts. Archts. est. $275,000.

Pa., Titusville—Theatre—Morosco Holding Co., 25 West 43rd St., New York City, 2 story, 40 x 120 ft., brick, West Spring St., to F. C. Danner, New Kensington. Archts. est. $150,000. Noted June 22.

Pa., Wilkes Barre—Church—St. Stephens Parish, 143 x 240 ft. brick and steel, South Franklin St., to J. Curtis Co., Wilkes-Barre. Archts. est. $150,000.

W. Va., Charleston — Apartment — S. Stephenson, 28 Bradford St., 3 story, 93 x 103 ft., brick and stone, Virginia and Greenbrier Sts., to Roush Bros., Charleston, (street address not available). Archts. est. $150,000.

O., Cleveland — Armory — Troop A Veterans Assn., c/o R. A. Perkins, captain, East 55th St. and Curtiss Ave., 1 story, 203 x 212 ft., concrete, brick and steel, Fairmount and Kemper Rds., to Central States Eng. & Constr. Co., Union Commerce Bldg. Archts. est. $350,000. Noted May 4.

O., Cleveland—Church—St. Vincent De Pauls Church, c/o M. J. Flannigan, pastor, 1109 Superior Ave., 1 story, 53 x 118 ft., brick, concrete and steel, West 135th St. and Lorain Ave., to Schirmer-O'Hara Co., 2031 Euclid Ave. Archts. est. $150,000.

O., Cleveland—Commercial—J. Babin, 827 Superior Ave., 2 story, 75 x 220 ft., brick, steel and timber, northeast corner East 97th St. and Euclid Ave., to Piscopo Constr. Co., 2233 Edgehill Rd. Archts. est. $200,000. Noted Jan. 12.

O., Oxford — Dormitory — Bd. Trustees Miami University, general contract 3 story women's dormitory, to J. Lowes, 508 West 2nd St., Dayton, $187,770; heating, plumbing and electrical work, to Walker Constr. Co., Hamilton, $26,580. Noted Aug. 17.

O., Washington C. H.—Commercial and Club—Elks Lodge, 3 story 74 x 165 ft., brick and concrete, to S. Q. Henke & Son, Gallipolis. Archts. est. $150,000. Noted July 20.

Buildings (Continued)

Ind., New Haven—School—G. E. C. Schaper, trustee, 2 story, 105 x 112 ft., brick and fireproof construction, to W. A. Sheets, 522 East Berry St., Fort Wayne. Archts. est. $157,000. Noted Dec. 8.

Mich., Crystal Falls—Hotel—Oliver Iron Mining Co., Wolvin Bldg., Duluth, Minn., 3 story, 96 x 98 ft., concrete and brick, plain foundation, to H. Gundlach, Leopold Bldg., Houghton. Archts. est. $150,000.

Mich., Detroit—Apartment—Clifford Land Co., c/o J. P. Jogerst, archt, 1127 Shelby St., 10 story, 150 x 171 ft., rein.-con., brick and steel, plain foundation, Clifford St., to Natl. Constr. Co., 1031 Dime Bank Bldg. Archts. est. $1,500,000. Noted May 4.

Mich., Detroit—Apartment—G. Klein, c/o A. Kahn, archt., 1000 Marquette Bldg., 8 story, 107 x 111 ft., rein.-con., brick and stone, plain foundation, Pingree Ave., to Bryant & Detwiler, 2336 Dime Bank Bldg. Archts. est. $400,000. Noted July 13.

Ill., Chicago—Apartment and Store—H. Minkus c/o Leichenko & Esser, archts., 38 South Dearborn St., 4 story, 70 x 127 ft., rein.-con., brick and steel, Bway. and Roscoe St., to Waldman Constr. Co., 165 North Clark St. Archts. est. $275,000.

Ill., Chicago—Bank—Stony Island Trust & Savings Bank, 6822 Stony Island Ave., 8 story, 65 x 115 ft., rein.-con., brick and steel, 68th St. and Stony Island Ave., to F. Burke, 35 South Dearborn St. Archts. est. $500,000. Noted June 15.

Ill., Chicago—Church—Logan Square Congregation Building Comn., 3134 Fullerton Ave., 2 story, 75 x 150 ft., rein.-con., brick and steel, 3133-37 Fullerton Ave., to Behrens Constr. Co., 2149 North Talman Ave. Archts. est. $250,000.

Ill., Chicago—Theatre, Store and Office—General Amusement Co., 127 North Dearborn St., 1 and 2 story, 103 x 124 ft., rein.-con., brick and steel, 1900-10 North Western Ave., to G. Thompson & Son, 30 North La Salle St. Archts. est. $200,000.

Ill., Evanston—Church—St. Pauls Evangelical Lutheran Congregation, c/o W. C. Jones, archt., 19 South La Salle St., Chicago, 1 story, rein.-con., brick and steel, Greenwood and Maple Sts., here, to Schmidt Bros. Constr. Co., 105 North Clark St., Chicago. Archts. est. $150,000.

Wis., Bangor—High and Grade School—Bd. Educ., 2 story, 60 x 150 ft., rein.-con., brick and stone, plain foundation, to C. W. Noble, 206 State Bank Bldg., La Crosse. Archts est. $150,000.

Wis., Madison—Hospital—Bd. Regents, University of Wisconsin, 7 story, 250 x 300 ft., rein.-con., brick and steel, plain foundation, Charter St., to Immel Constr. Co., 200 North Main St., Fond du Lac. $668,443. Noted Feb. 2.

Ia., Des Moines—Community House—Jewish Community Center, c/o L. Oransky, pres. United Jewish Charities, 315 Walnut St., general contract 2 story, rein.-con., brick, tile and stone, 8th and Forest Sts., to J. Maine & Sons, 119 8th St., $105,000. Noted Mar. 17, 1921.

Ia., Dubuque—Bank and Office—Union Trust & Savings Bank, c/o J. F. Neebe, chn. Building Comn., 13th St. and Central Ave., general contract, 3 story, 75 x 100 ft., rein.-con., brick, tile, granite and terra cotta, to Strandberg Bros., 19 South La Salle St., Chicago. Archts. est. $250,000. Noted Sept. 1.

N. D., Dickinson—Administration—Bd. administration State College, Bismarck, general contract 3 story, 110 x 300 ft., rein.-con., brick, tile and stone, at State Normal School, here, to T. F. Powers & Co., 419 8th St. N., Fargo, $225.482. Noted March 16.

Utah, Ogden—Gymnasium—L. D. S. Church School System, concrete and brick work for 3 story, 60 x 110 ft., Jefferson Ave., to E. J. Isakson, 252 22nd St., $125,-000. Noted July 27.

Ont., Kitchener—Collegiate—School Bd., 3 story, 185 x 250 ft. brick, steel and stone technical school, to Anglin-Norcross, Ltd., Continental Life Bldg., Toronto. Archts. est. $375,000.

Ont., London—University—J. M. Moore, archt., 489 Richmond St., 3 story, 175 x 300 ft. brick, steel and stone science building, to J. Putherbough, 1006 Wellington St. Archts. est. $250,000. Noted Aug. 10.

Hawaii, Honolulu—Hospital—Queens Hospital Assn., 3 story, rein.-con., to Ingvorsen Constr. Co., Honolulu. $375,000.

Federal Government Work

PROPOSED WORK

N. Y., Brooklyn—Oil Storage House—Constructing Quartermaster, 39 Whitehall St., New York, soon receives bids oil storage house at army supply base, here.

O., Chillicothe—Hospital—War Dept., c/o Construction Quartermaster, soon receives bids for U. S. Veterans Hospital, here.

Calif., Mare Island—Remodeling—Spec. 4601—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives bids remodeling Building 53, here. Noted March 9.

BIDS DESIRED

N. Y., New York—Dredging, etc.—Oct. 5 at office U. S. Engineer, 710 Army Bldg., 39 Whitehall St., dredging and rock removal in East River; adv. this issue.

Pa., Phila.—Stone and Breakwater—Sept. 8, by Supt. Lighthouses, furnishing stone and building breakwater at Brandywine Shoal Light Station, Delaware Bay, Del.

Del., Wilmington—Dredging—Oct. 6, at office U. S. Engineer, Wilmington, dredging Tuckerton Creek, N. J.; adv. this issue.

D. C., Wash.—Isolation Building—Sept. 10, by Dept. Agriculture, isolation building at St. Elizabeth Hospital.

La., Alexandria—Extension, etc.—Sept. 28, by Treas. Dept., Wash., D. C., extension, remodeling, etc., U. S. Post Office and Court House, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

Colo., Fitzsimons—Roads—Sept. 16, by local Constructing Quartermaster, concrete paving West Gate and E-9 Rds., Fitzsimons General Hospital.

Utah, Eureka—Post Office—Sept. 29, by Treas. Dept., Wash., D. C., for U. S. Post Office, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

California—Road—Sept. 12, by C. H. Sweetser, dist. engr., U. S. Bureau Pub. Rds., 881 Mills Bldg., San Francisco, grading and building structures, on Currant Creek Rd. in Nevada Natl. Forest, 3,000 cu.yd. rock and 45,000 cu.yd. earth excav., 260 cu.yd. Class B concrete, 10,000 lin.ft. furrow ditch, etc.

BIDS RECEIVED

Mass., Chelsea—Grading—Treas. Dept., Wash., D. C., grading, here, from G. D. Campbell, 56 Market St., Poughkeepsie, N. Y., $17,000; S. Beskie, Beacon, N. Y., $32,000; M. Spino, Beacon, N. Y., $21,180.

R. I., Providence—Dredging—U. S. Engineer, dredging in harbor at Bridgeport, Conn., Sects. (1) 10,000 cu.yd., (2) 65,600 cu.yd., (3) $24,200 cu.yd., (a) work as a whole, (b) sections separately from P. Sanford Ross, Inc., 277 Washington St., Jersey City, N. J., (a) Sects. 1, 2 and 3, $0.2233 per cu.yd.; J. S. Packard Dredging Co., 1004 Turks Head Bldg., (a) Sects. 1, 2 and 3, $0.23, (b) Sects. 1 and 2, $0.23, Sect. 3, $0.30; Taylor Dredging Co., Foot of Communipaw Ave., Jersey City, N. J., (a) Sects. 1, 2 and 3, $0.325. Noted Aug. 10.

Md., Baltimore—Mechanical Equipment—Treas. Dept., Wash., D. C., mechanical equipment in U. S. Marine Hospital, here, from Noland-Clifford, 322 28th St., Newport News, Va., $72,024; H. E. Crook Co., 28 Light St., $73,999; W. G. Cornell Co., 19 Patterson St., N. E., Wash., D. C., $85,-850. Noted Aug. 17.

D. C., Wash.—Air Compressor—Public Printer, Government Printing Office, opened bids for furnishing air compressors, from Carroll Electric Co., 714 12th St., $21,500; Chicago Pneumatic Tool Co., 300 North Michigan Ave., Chicago, $24,242; W. G. Cornell Co., 19 Patterson St., N. E., $25,690.

D. C., Wash.—Pump—Dist. Comrs., 509 Dist. Bldg., 1 steam centrifugal pump unit, 10,000,000 gal. capacity, from De Laval Steam Turbine Co., North Clinton St., and Pennsylvania R.R., Trenton, N. J., (a) $33,-060, (b) $54,585; Worthington Pump and Mchy. Co., 115 Bway., New York City, $50,-319, alternate bid, deduct $1,150, if no tests are held deduct $800.

Ga., Augusta—Roads and Walks—Treas. Dept., Wash., D. C., roads and walks at U. S. Public Health Service Hospital 62, here, (a) concrete, (b) gravel, from Hodgson & Jones, Montgomery, Ala., (a) $30,975, (b) $17,990; W. F. Bowe, Jr., 541 Broad St., (a) $33,840, (b) $25,900; C. E. Jones, 1688 Jenkins St., (a) $37,500, (b) $22,500. Noted Aug. 17.

Wis., Fond du Lac—Post Office—Treas. Dept., Wash., D. C., extension to U. S. Post Office, here, from Garber & Cissel, Bethlehem, Pa., (street address not available) $12,000; Devault & Deitrick, Canton, O., (street address not available) $14,222; Pearce Bros., Inc., 220 West 42nd St., New York City, $13,400. Noted July 27.

Utah, Spanish Fork—Post Office—Treas. Dept., Wash., D. C., opened bids Aug. 22 for U. S. Post Office, here, from G. A. Whitmeyer, 826 25th St., Ogden, $39,800; C. Weitz Sons Co., 713 Mulberry St., Des Moines, Ia., $48,375; Duvall & Deitrich, Canton, O., (street address not available), $48,796. Noted July 27.

Calif., Mare Island—Circulating Loop—Spec. 4684—Bureau Yards & Docks, Navy Dept., Wash., D. C., circulating loop for central power plant at Navy Yard, here, (1) work complete from Tibbets Pacific Co., 16 California St., San Francisco, (1) $104,-960 (200 days), (2) $69, (3) $69, (4) $69, (5) $25, 6 $69, 7 $98, (8) $28, (9) $0.60; Clinton Constr. Co., 136 Townsend St., San Francisco, (1) $120,218, (2) $206, (3) $90, (4) $146, (5) $304, (6) $400, (7) $150, (8) add $30 deduct $20, (9) add $1 deduct $0.25; Healy-Tibbets Constr. Co., 64 Pine St., San Francisco, (1) $123,370 (230 days), (2) add $100 deduct $30, (3) add $100 deduct $30, (4) add $45 deduct $15, (5) add $40 deduct $15, (6) add $60 deduct 20. Noted July 27.

CONTRACTS AWARDED

N. Y., New York—Dredging—U. S. Engineer, 710 Army Bldg., 39 Whitehall St., dredging and rock removal in Bronx River to Bridgeport Dredge and Dock Co., 1024 Main St., Bridgeport, Conn., $111,313. Noted July 6.

Va., Quantico—Retaining Walls—Spec. 4647—Bureau Yards & Docks, Navy Dept., Wash., D. C., retaining walls at Marine Flying Field, here, to E. G. Heflin, Fredericksburg, $5,200 (90 days). Noted Aug. 31.

W. Va., Huntington—Steel Maneuver Boat—U. S. Engineer, Huntington, steel maneuver boat for Dam 1, Big Sandy River, to Midland Barge Co., Midland, Pa., $7,980.

Fla., Key West—Distilling Plant—Spec. 4546—Bureau Yards & Docks, Navy Dept., Wash., D. C., distilling plant at Naval Base, here, to A. Pope, 4722 15th St., N.W., Wash., D. C., $63,250 (150 days). Noted Aug. 24.

Miss., Vicksburg—Levee Work—U. S. Engineer, P. O. Box 421, levee work, to Roach, Stansell, Lawrence Bros. & Co., North Memphis Savings Bank Bldg., Memphis, Tenn., Windemere and Cleremont Levees, $117,900; Lambert Bros., St. Rose, La., St. Clair Levee, $15,000; H. A. Schornberger, Triumph, La., Orange Farm, Vaccaro River and Fort St. Phillip Levees, $20,050; Clark, Rodgers, Burt & Brown, Natchez, Longwood Levee, $163,050.

La., New Orleans—Levee Work—U. S. Engineer, 329 Customhouse, levee work in various districts, Ione Levee, to W. C. Mullen, 2408 Cherry St., Vicksburg, Miss., $73,950.

Minn., Duluth—Breakwater—U. S. Engineer, repairs to breakwater, Keweenaw Waterway, to T. L. Durocher Co., Detroit, Mich., (street address not available), $70,000.

Mo., Neelys Landing—Riprap Stone—U. S. Engineer, 1st and 2nd Dists., Custom House, Memphis, Tenn., riprap stone, here, to Arnold Stone Co., Neelys Landing, $19,200.

Tex., Galveston—Dredging—U. S. Engineer, Galveston, dredging 30 ft. Project Houston Ship Channel, Sect. 1, to Atlantic, Gulf and Pacific Co., 13 Park Row, New York City, $688,745; Sect. 2, United Dredging Co., 233 Bway., New York City, $283,-957. Noted July 20.

Mont., Malta—Drainage—U. S. Reel. Service, Malta, structures on Nelson Reservoir Canal and Vandalia Canal, laterals and wastewater ditches, Milk River Project, to Ditty, Schultz & Sigvardt, Lewistown, (street address not available), $27,-796. Noted July 13.

Calif., San Diego—Wards and Service Building—Spec. 4636—Bureau Yards & Docks, Navy Dept., Wash., D. C., wards and service building for hospital reservation at Naval Base, here, to Lange & Bergstrom, 819 Timkin Bldg., $482,500 (300 days). Noted Aug. 31.

H. T., Pearl Harbor—Ordnance Buildings, etc.—Spec. 4566—Bureau Yards & Docks, Navy Dept., Wash., D. C., 6 ordnance buildings, railroad track and water main extensions, etc., at Kauhua Ammunition Depot, naval operating base, here, to J. L. Young Eng. Co., Campbell Bldg., Honolulu, $166,140 (294 days). Noted Aug. 17.

FEDERAL POWER COMMISSION

Application for Licenses and Permits

Applications

322—Anaconda Copper Mining Co., Anaconda, Mont.—Wants license for Georgetown Lake Dam, incl. concrete dam, woodstave conduit, power house and appurtenant structures and transmission lines, Georgetown Lake and Flint Creek, partly within Missoula Natl. Forest, Granite and Deer Lodge Counties. Work completed and now under Forest Service permit.

323—C. E. Schaup, 304 Commonwealth Trust Bldg., 222 Market St., Harrisburg, Pa.—Wants preliminary permit for concrete dam 12 ft. high, at head of Sassafras Island, power plant and appurtenant machinery on Sassafras Island, to be operated in conjunction with Drumgold Project 46, Susquehanna River, Dauphin and York Counties, Pa.

324—Empire District Electric Co., Galena, Kan.—Wants preliminary permit

Federal Power Commission (Continued)

rein.-con. arch dam, 175 ft. high in Sect. 23, T. 22 N., R. 22 W. White and James Rivers above Branson in Taney, Stone and Barry Counties, Mo., and Carroll Co., Ark. Power house with appurtenant facilities and transmission lines to Joplin, Mo., and to connect with lines of Ozark Power & Water Co.

325—Southern Sierras Power Co., Riverside, Calif.—Wants license for 15,000 volt distribution line, 8.4 mi. long, from Edom to Palm Springs Resort, across Aqua Caliente Indian Reservation.

326—Holton Power Co., Riverside, Calif.—Wants license for distribution line from Holton Power Co. line, Dixieland, Imperial Co., to Imperial Oil and Gypsum Co.'s plant in Sect. 8, T. 16 S, R. 11 E.

327—Southern Sierras Power Co., Riverside, Calif.—Wants license for 2 mi. of 2,200 volt distribution line near Bishop and Laws, Inyo Co.

328—City of Los Angeles, Dept. of Pub. Service, 603 Knickerbocker Bldg., Los Angeles, Calif.—Wants preliminary permit for 5 reservoirs to store 7,965 acre-feet, on Pine and Morgan Creeks, Inyo Co.; diversion canal and tunnel below confluence of Morgan Creek with Pine Creek, steel penstocks and power house.

329—Bear Valley Utility Co., San Bernardino, Calif.—Wants license for 7.95 mi. of 33,000 volt transmission line near Big Bear Lake, San Bernardino Co.

330—Southern Sierras Power Co., Riverside, Calif.—Wants preliminary permit for 4 storage reservoirs at headwaters of Bishop Creek, a tributary of Owens River, Inyo Co.

331—City of St. Paul, Minn.—Wants preliminary permit to develop 15,000 hp. on St. Croix River, from St. Croix Falls to head of Kettle Rapids, Nevers, Lower Kettle, Upper Kettle, Markham-Kelsey-Druar and other power sites on this section of river.

332—W. C. Brower, 706 Hutton Bldg., Spokane, Wash.—Wants preliminary permit for concrete dam in Phantom and Blue Grouse Creeks, 18 in., 24 in. and 36 in. pipe line 1.75 mi. long, and power house with auxiliary works in Sects. 1, 2 and 10, T. 50 N., R. 2 W, B. M., Coeur d'Alene Natl. Forest, Kootenai Co., Idaho.

333—E. Mucklow, Powell, Wyo.—Wants license for 30 in. by 15 in. head gate deflects water from Lake Creek into ditch of 5 second-feet capacity. Said ditch extends 1,958 ft. to 9 ft. overshot wheel which operates intermittently a sawmill, 264 ft. of ditch extending across Shoshone Natl. Forest. Static head equals 9 ft. Sect. 18, T. 57 N., R. 106 W.

Miscellaneous

PROPOSED WORK

Park and Equipment—Niagara Falls, New York—Plans election to vote on $285,000 bonds, for new park, fully equipped, in Grill Run section. E. J. Fort, city mgr. W. Bennett, city engr.

Athletic Field and Park—Beaver, Pa.—Plans modern, fully equipped athletic field and park. $25,000. E. N. Tomlinson, boro. secy. Engineer not announced.

Park, Pool, etc.—Phila., Pa.—F. H. Caven, dir. pub. wks., soon takes bids park, wading pool, shelter house, etc. $50,000. P. B. Sinkler, 1211 Chestnut St., engr.

Steel Tower Transmission Line—Fayetteville, N. C.—Carolina Power Co., Raleigh, plans 40 mi. steel tower transmission line from here to Laurenburg. P. A. Tillery, Capitol Apartments, Raleigh, supt.

Colo., Denver—Hospital—University of Colorado, Boston Bldg., had plans prepared by Briscoe, Fisher & Fisher, archts., U. S. Natl. Bank Bldg., 3-5 story, rein.-con. and brick, Colorado Blvd. and 9th Ave. $1,250,000. See "Miscellaneous" under "Bids Desired."

BIDS DESIRED

Portland Cement—New York, N. Y.—Sept. 15, by Bd. Purch., Municipal Bldg., furnishing and delivering Portland cement, sand and broken stone, to Dept. Plant & Structures. G. A. Whalen, chn.

Piers—Stillwater, N. Y.—Sept. 14, at office of H. C. Pitney, clk., encasing with concrete, 5 piers under Stillwater Bridge; adv. this issue.

Boardwalk—Long Branch, N. J.—Sept. 12, by City Comrs., City Hall, renewing and widening 4,300 lin.ft. boardwalk, from point near Morris Ave. to Sea View Ave. J. W. Seaman, 192 B'way, city engr.; adv. this issue.

Bulkhead—Chicago, Ill.—Sept. 13 by South Park Comrs., 57th St. and Cottage Grove Ave., 7200 lin.ft. bulkhead. J. F. Neil, secy.; adv. this issue.

BRIDGE—MIAMI, FLA.

Bids were opened by F. H. Wharton, city mgr., Aug. 22, for constructing Miami River Bridge at Southwest 2nd Ave., from (A) Comer-Ebsary Foundation Co., Miami, (awarded contract); (B) South Florida Eng. & Contg. Co.; (C) Penn Bridge Co. The unit bids were as follows:

	A	B	C
300,000 lb. structural metal work, etc.	$0.073	$0.08	$0.0784
47,000 lb. machinery, etc.	.39	.30	.34
1,300 cu. yd. 1; 1½: 3½ concrete	27.00	24.00	25.00
1,200 cu. yd. 1: 1½: 3 concrete	22.25	37.50	41.00
40 cu. yd. 1:1:2 concrete	40.00	62.50	45.00
52,000 lb. reinforcing steel	.07	.07½	.05
Electrical equipment (lump sum)	6,021.84	6,420.00	4,750.00
20M ft. B.M. untreated timber	80.00	100.00	76.00
25M ft. B.M. treated timber	125.00	125.00	105.00
1,100 sq. yd. macadam pavement	1.50	1.00	3.40
7,300 cu. yd. embankment	1.35	1.20	1.05
Extended totals all items (19 items)	$144,090	$154,400	$163,245

BRIDGE—NEW HAVEN, CONN.

Following is (A) lowest and (B) highest bid opened by Director of Public Works, June 14, for construction of Tomlinson Bridge over Quinnipiac River. The contract for the general masonry, sandstone piers and asphalt pavement was awarded to C. W. Blakeslee & Sons, Inc., 58 Waverly St., $475,153; steel work to Phoenix Bridge Co., Phoenixville, Pa., $212,866; electrical work to New Haven Electric Co., 294 Elm St., $22,816.

	A	B
Removing old piles, each	$2.00	$4.00
Cutting old piles, each	1.50	2.00
Removing masonry above mean low water, cu.yd.	2.00	2.20
Removing masonry below mean low water, cu.yd.	2.20	4.50
Excavation above mean low water, cu.yd.	1.50	3.00
Excavation below mean low water, cu.yd.	2.00	3.50
Dredging, cu.yd.	.70	1.00
Foundation piles, lin.ft.	.42	.79
Treated long leaf yellow pine piles, lin.ft.	.85	.945
Creosoted long leaf yellow pine, M	140.00	180.00
Foundation concrete, 1-3-5, cu.yd.	15.20	18.10
Stone and backing, concrete, cu.yd.	60.00	84.40
Reinforced concrete, 1-2-4, cu.yd.	20.00	22.20
Steel rods for reinforcing, lb.	.035	.055
Erection structural steel in bascule piers, ton	9.00	27.00
Waterproofing bascule piers, sq.yd.	.30	.33
Waterproofing roadway, sq.yd.	.20	.215
Gunite, sq.ft.	.60	.60
Grading, cu.yd.	1.50	1.50
Rip-rap in place, ton	2.20	2.25
Wood block paving, fixed spans, cu.yd.	5.25	6.55
Wood block paving, approaches, cu.yd.	5.40	6.55
Removing old curb, lin.ft.	.18	.20
Setting new granite curb, lin.ft.	2.90	3.25
Sidewalks on approaches, sq.ft.	.18	.23
Wood fence on approach, lin.ft.	.70	1.25
Pileshoes in place, each	2.00	2.00
Portland cement, bbl.	3.20	3.25
Timber in open caisson, M	100.00	100.00
Asphalt pavement, fixed span, cu.yd.	3.50	3.75
Asphalt pavement approach, cu.yd.	3.50	3.84

Foundation—Denver, Colo.—Sept. 15, by Briscoe, Fisher & Fisher, archts., U. S. Natl. Bank Bldg., concrete foundation for 3-5 story, rein.-con. and brick hospital, Colorado Blvd. and 9th Ave., for University of Colorado, Boston Bldg. $100,000. Total cost $1,250,000.

Crane—Aberdeen, Wash.—Sept. 23, by Port of Grays Harbor, at office of Commission, 206 East Wishkah St., 5 ton lumber handling mill type crane with 75 ft. span lumber grapple. Former bids rejected. F. H. Lamb, pres.; adv. this issue. Noted July 27.

Tank—Dorval, Que.—H. Meloche, 249 St. Joseph St., taking bids Imhoff sewerage tank, automatic sewerage chlorinator.

Mechanical Equipment—Vancouver, B. C.—Oct. 2, by Harbor Comrs., 712 Pender St., mechanical equipment for new pier on Burrard Inlet, incl. eight 3 ton cranes, four 9 ton freight elevators, four 200 ton capstans at 100 ft. per minute, four tractors and four trailers, etc., all electrically operated. A. D. Swan, 10 Phillips Pl., Montreal, Que., engr.

BIDS RECEIVED

Dumping Platform and Ramp, etc.—New York, N. Y.—J. H. Delaney, comr. Docks & Ferries, Pier "A" foot of Battery Pl., superstructure on pier at East 35th St. consisting of rein.-con. dumping platform and ramp, Contr. 1773, from McHarg Barton Co., $45,835; J. Young, Jr., 103 Park Ave., $46,697; Rosenthal Eng. & Contg. Co., 228 Jackson St., Brooklyn, $47,395. Noted Aug. 24.

CONTRACTS AWARDED

Refined Asphalt, etc.—Brooklyn, N. Y.—E. Riegelmann, boro pres., Boro Hall, furnishing and delivering 130,000 gal. refined asphalt, liquid form, to Standard Oil Co., 26 Bway., New York, $0.0521 per gal.; 1,500 cu.yd. binder stone, to Calvin Tomkins, 30 Church St., New York, $2.03; 5,200 cu.yd. asphalt sand, to Hygrade Builders Supply Co., 6th St. and 2nd Ave., $1.19; 750 net ton limestone, etc., to New York Trap Rock Corp., 101 Park Ave., New York, $7.88; 28,900 ft. lumber, to Prever Lumber Co., 250 West 23rd St., New York, $976; 8,000 gal. tar road binder, to F. J. Lewis Mfg. Co., 177th and Ferris Sts., New York, $0.1672; 2,200 cu.yd. paving sand, to J. F. Meehan, 103 Park Ave., New York, $0.97; 3,000 cu.yd. 1½ in. gravel, to Rossoff Sand & Gravel Co., 152 West 42nd St., New York, $7,124; 5,300 bbl. Portland cement, to Burroughs Building Material Co., Johnson Ave. and Newtown Creek, $2.88; 30,000 asphalt paving blocks, to Hastings Paving Co., 25 Broad St., New York, $89; 20,000 wood paving blocks, to Amer. Creosoting Co., 17 Battery Pl., New York, $54.10. Noted Aug. 24.

Clearing, etc.—New York, N. Y.—G. A. Whalen, comr. Plant & Structures, Municipal Bldg., clearing site, excavating, sheeting and bracing for foundation for proposed repair shop, 16th St. and Ave. C, to Contractors Service Corp., 226 Jackson St., Brooklyn, $46,342. Noted Aug. 31.

Fine Gravel—New York, N. Y.—Bd. Purch., Municipal Bldg., furnishing and delivering fine gravel to Dept. Parks, Manhattan Boro, to Rosoff Sand & Gravel Co., 152 West 42nd St., $2.65 per cu.yd. Noted Aug. 31.

Oak Piles, etc.—New York, N. Y.—Bd. Purch., Municipal Bldg., furnishing and delivering oak piles to Dept. Plant & Structures, to G. E. Best, Bloomfield Ave., Caldwell, N. J., $8,750; sand grits for Dept. Parks, Bronx Boro, to Ames Bldg. Material Co., 3441 Kingsbridge Ave., Bronx, $690. Noted Aug. 17.

Paving Sand—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., furnishing and delivering 3,000 cu.yd. paving sand, to G. A. Colgan, Jr., 90 William St., $1.50 per cu.yd. Noted Aug. 31.

Eliminating Grade Crossings and Elevating Tracks—Pittsburgh, Pa.—Pennsylvania R.R., Central Region, Union Sta., eliminating grade crossings and elevating tracks, incl. 22,665 cu.yd. excav., 75,080 lin.ft. piling, 13,930 cu.yd. foundation masonry, 2,328 cu.yd. bridge masonry, 22,575 cu.yd. retaining mosonry, 486 cu.yd. rein.-con., 1,017,000 lb. steel superstructure, 16,500 lin.ft. curb, 5,890 sq.yd. paving 14,800 sq.ft. concrete sidewalks, 46,000 lin.ft. track, etc. to A. L. Anderson & Bros. Inc., Altoona Trust Bldg., Altoona.

Cement Mixing Machine—Madison, Wis. Cement mixing machine for use in city street department, to H. Y. Smith Co., 1301 1st Natl. Bank Bldg., Milwaukee. Noted July 20.

Grain Elevator—Minneapolis, Minn.—Pioneer Grain Corp., Corn Exchange Bldg., will build 5 story, concrete, frame and metal clad grain elevator, at 500 25th Ave. S. E., by day labor. $50,000.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ADVERTISEMENTS ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE.

OFFICIAL PROPOSALS

Bids: Sept. 19.

Sheet Asphalt Resurfacing

Woodbury, N. J.

Notice is hereby given that sealed bids will be received by The Board of Chosen Freeholders of the County of Gloucester for the resurfacing of Delaware Street, in the County of Gloucester with a sheet asphalt surface upon the present reconstructed foundation, estimated amount of asphalt surface pavement required is 15,056 sq.yd.; of stone for reconstructing foundation is 5,271 tons; and opened and read in public at the Court House, Woodbury, N. J., on Tuesday, the nineteenth day of September, 1922, at 10.30 a.m., Eastern Standard Time.

Drawings, specifications and forms of bids, contract and bond for the proposed work, prepared by William C. Cattell, County Engineer, and approved by the State Highway Commission, have been filed in the office of said engineer at Woodbury, N. J., and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blueprints of the drawings by the engineer on proper notice and payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of road on the outside, addressed to The Board of Chosen Freeholders of the County of Gloucester and must be accompanied by a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500 nor more than $20,000 and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to engineer.

By order of The Board of Chosen Freeholders of the County of Gloucester.

CHESTER N. STEELMAN, Clerk.
WILLIAM C. CATTELL,
County Engineer.

Bids: Sept. 14.

Paving, Curbing, Storm Sewers, etc.

Mobile, Ala.

Sealed bids will be received until noon Thursday, Sept. 14, 1922, by the City Commission of the City of Mobile, Alabama, for the following:

One course Concrete Paving six inches in thickness—29,756 square yards. Concrete Curbing eighteen inches deep by five inches wide—14,512 lin.ft. Double strength storm sewers 12 inch—1,334 ft. 15 inch—1,160 ft. 18 inch—2,405 ft. 21 inch—522 ft. Standard Storm sewers, 6 inch—3,036 ft. 10 inch—1,872 ft. 12 inch—1,340 ft. 15 inch—315 ft. 24 Standard Manholes—83 Standard Inlets and 19 Standard Special Basins. A deposit of one thousand dollars will be required to accompany each bid. 1—For Paving and Curbing. 2—For Storm Sewers. Plans and specifications are on file in the City Engineer's office and can be seen on application. The right is reserved to reject any or all bids.

R. V. TAYLOR,
Commissioner of Streets.
WRIGHT SMITH,
City Engineer.

OFFICIAL PROPOSALS

Bids: Sept. 12.

Boardwalk Construction

Long Branch, N. J.

Public notice is hereby given that sealed proposals are invited and will be received by the Board of Commissioners of the City of Long Branch, New Jersey, for the renewal and widening of about forty-three hundred (4,300) lineal feet of boardwalk extending from a point near Morris Avenue northwardly to Sea View Avenue.

Said bids will be opened and read at a regular meeting of the Board of Commissioners held at City Hall on Tuesday evening, September 12, 1922, at 8 o'clock p.m. (daylight saving time) or as soon thereafter as the matter can be presented.

Drawings and specifications for the proposed work prepared by J. W. Seaman, City Engineer, have been filed in the office of the City Clerk and at the office of the Engineer, at 192 Broadway, Long Branch, New Jersey, and may be procured by prospective bidders upon a deposit of Ten Dollars $10.00) which will be refunded upon the return of the plans and specifications at or before the time the bids are received.

Bids must be made on the standard proposal forms in the manner prescribed therein and required by the specifications and must be enclosed in sealed envelopes bearing the name and address of the bidder and marked, "Bids for rebuilding boardwalk," addressed to Frank C. Quinn, City Clerk, and must be accompanied by a certified check for not less than ten per cent (10%) of the amount bid upon proposed work as stated in the proposal, drawn to the order of Frank L. Howland, City Treasurer, or cash in equal amount, and to be delivered at the place and at the hour above named.

Dated Long Branch, N. J., August 31, 1922.

FRANK C. QUINN,
City Clerk.

Bids: Sept. 20.

lighway Work

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at one o'clock P.M., advanced standard time, which is twelve o'clock noon eastern standard time, on Wednesday, the 20th day of September, 1922, for the improvement of highways in the following counties:

Franklin	(one highway:	8.91)
Livingston	(one highway:	0.99)
Onondaga	(one highway:	3.47)
Otsego	(one highway:	1.74)
Rockland	(two highways:	1.48 & 4.08

Also for the reconstruction of the following:

Cortland	(one contract:	0.54)
Monroe	(one contract:	4.70)
Ontario	(one contract:	2.23)

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the division engineers in whose division the roads are to be improved or reconstructed. The addresses of the division engineers and the counties in which they are in charge will be furnished upon request.

The especial attention of bidders is called to "General Information for Bidders" in the itemized proposal, specifications and contract agreement.

HERBERT S. SISSON,
Commissioner.

J. C. FINCH,
Secretary.

OFFICIAL PROPOSALS

Bids: Sept. 19.

Road Construction

Woodbury, N. J.

Notice is hereby given that sealed bids will be received by The Board of Chosen Freeholders of the County of Gloucester for the construction of the Swedesboro-Woodstown road in the Borough of Swedesboro and Townships of Woolwich and South Harrison, in the County of Gloucester, New Jersey, with a reinforced concrete pavement, estimated amount of concrete pavement required is 38,402 sq.yd., and opened and read in public at Court House, Woodbury, New Jersey, on Tuesday, the nineteenth day of September, 1922, at 10.00 o'clock, Eastern Standard Time.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by William C. Cattell, County Engineer, have been filed in the office of the said engineer at Woodbury, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blueprints of the drawings by the engineer on proper notice and payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of road on the outside thereof, addressed to The Board of Chosen Freeholders of the County of Gloucester and must be accompanied by a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500 nor more than $20,000 and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to engineer.

By order of The Board of Chosen Freeholders of the County of Gloucester.

CHESTER N. STEELMAN, Clerk.
WILLIAM C. CATTELL,
County Engineer.

Bids: Sept. 26.

Bridge Work

Toledo, Ohio.

Sealed proposals will be received by the Director of Public Service of the City of Toledo, until Twelve O'Clock noon, September 26, 1922, for the construction of a bridge over Swan Creek, in the line of Hawley Street.

The work will consist of:

1. Removing old structure.
2. Building two abutments approximately 1,800 cubic yards of concrete.
3. Furnishing steel girders—90 feet span.
4. Paving bridge and approaches, approximately 787 square yards.

Proposal forms, plans and specifications can be seen at the office of the Commissioner of Engineering or can be obtained from said office on deposit of $10.00 for each set, which will be refunded provided plans and specifications are returned in good order.

The Director of Public Service reserves the right to reject any or all bids or to accept any bid which he may deem advantageous to the City of Toledo.

W. T. JACKSON,
Director of Public Service.

Attest: GEORGE E. LASKA,
Secretary.

OFFICIAL PROPOSALS

Bids: Sept. 19.

Road Work

Richmond, Va.

Bids will be received at the Office of the Virginia State Highway Commission, corner 10th and Marshall Streets, Richmond, Va., until 12 o'clock noon, Tuesday, September 19, for the construction of:

PROJECT 125A, Route 6, from Fairfax-Loudoun County line to Project 125B, in Loudoun Co, 4.75 miles of 16 ft. bituminous macadam roadway, involving approximately 10,200 cu.yd. excavation; 286 ft. of pipe, 51 cu.yd. concrete and 2,100 lb. of reinforcing steel. Alternate bids are requested, using concrete pavement.

PROJECT 160, Route 5, west from Suffolk, in Isle of Wight Co. for a distance of 4.6 miles of 18 ft. one-course concrete roadway, involving approximately 33,642 cu.yd. of excavation; 432 lin.ft. of pipe, 302 cu.yd. concrete; 9,789 lb. of steel and 1,440 lin.ft. of piling.

PROJECT 168, Route 6, from Chantilly to Loudoun County line, in Fairfax County, 5.01 miles of 16 ft. bituminous macadam roadway, involving approximately 29,220 cu.yd. of excavation; 360 lin.ft. of pipe, 569 cu.yd. concrete; 19,290 lb. of steel. Alternate bids are requested, using concrete pavement.

PROJECT 173, Route 1, between Falling Cr. and Dutch Gap Road in Chesterfield County, 6.43 miles of 18 ft. concrete roadway, involving approximately 13,542 cu.yd. excavation; 360 lin.ft. pipe; 360 cu. yd. of concrete; 77 cu.yd. rubble masonry, and 19,143 lb. of steel.

PROJECT 202, Route 9, between Louisa and Cobham in Louisa Co. 6.27 miles of 18 ft. one-course concrete roadway, involving approximately 37,893 cu.yd. excavation; 928 ft. of pipe; 172 cu.yd. of concrete, and 9,167 lb. of steel. Alternate bids will be considered using bituminous macadam surfacing.

Certified checks to the amount of $5,000.00 must accompany bids on these projects. A bidder's bond may be filed in lieu of certified check, 20 per cent in excess of amount of certified check.

Plans and specifications for inspection are on file at the office of the Virginia State Highway Commission, corner 10th and Marshall Streets, Richmond, and at the offices of the following District Engineers: Projects 125A and 168 at Manassas, 160 at Suffolk, and 173 and 202 at Richmond, Va. Additional plans for bidders can be obtained upon application to the Highway Commissioner, Richmond, for these projects upon receipt of check for Five dollars ($5.00), payable to Assistant Commissioner, $2.50 of which will be refunded when plans are returned in good condition within two weeks after bids are opened.

Specifications and bidding proposals may be obtained by request from the office of the Highway Commissioner, Richmond, Va.

Engineers will be at the following places to show prospective bidders over the work: At Fairfax C. H., 10:00 a.m., Friday, Sept. 15th, for Projects 125A and 168. At Suffolk, Dist. Engr.'s Office, 10:00 a.m., Thursday, Sept. 14, for Project 160. At Richmond, General Office, 10:00 a.m., Tuesday, Sept. 12, for Project 173. At Louisa C. H. at 10:00 a.m., Friday, Sept. 8, for Project 202.

The State Highway Commission reserves the right to reject any or all bids.

STATE HIGHWAY COMMISSION.
H. G. Shirley, Chairman.
G. P. Coleman, Commissioner.

Bids: Sept. 23.

Lumber Handling Crane

Aberdeen, Wash.

Sealed proposals will be received by the Port of Grays Harbor at the office of the Commission, 206 E. Wishkah St., Aberdeen, Wash., until 10 o'clock A.M., Sept. 23, 1922, for one 5 ton lumber handling mill type crane equipped with lumber grapple 75 foot span.

Further information on application.

PORT OF GRAYS HARBOR.
FRANK H. LAMB, President.
J. A. VANCE, Secretary.

OFFICIAL PROPOSALS

Bids: Sept. 19.

Sanitary Sewers

Hagerstown, Md.

Sealed proposals for building sanitary sewers in certain streets, alleys, rights-of-way secured and to be secured, and other localities in North and Central Hagerstown, will be received at the offices of The Sewerage Commission in Police Headquarters Building, until 7.30 p.m., Tuesday, September 19th, 1922, at which time and place, during the session of the Sewerage Commission, the proposals will be publicly opened and read.

The work to be done embraces the building of approximately 25,000 lineal feet of sanitary sewers, ranging in size from 18 inches to 8 inches with all manholes, foundations and appurtenances, also approximately 9,500 lineal feet 6-inch house connections and approximately 400 lineal feet 66-inch storm water sewer.

On and after September 2nd, 1922, specifications and blank forms of proposals can be obtained, and detailed plans examined at the offices of the Sewerage Commission, and a full set of plans will be sent to any contractor, on the receipt of $10.00, the same to be returned upon the surrender of the plans in good condition.

The Sewerage Commission of the city of Hagerstown reserves the right to reject any and all bids.

E. LEROY HEARD,
Secretary.

Countersigned:
JOHN CARMICHAEL, Chairman.

Thank You, Mr. Ferguson

"We just let contracts for approximately 25 miles of road construction yesterday and I attribute to a great extent the large number of bidders we had to the Publicity we received through the *News-Record*."

Very truly yours,
Angus Ferguson, Ch. Engr.,
Traylor County Road Department
Grafton, W. Va.

Bids: Sept. 13.

Bridges

Providence, R. I.

Sealed Proposals for the Construction of State Bridges number 46, known as the Hope Valley Bridge in Hopkinton, number 64, known as the Usquepaug Bridge in South Kingston and number 153, known as the Silver Creek Bridge in Bristol, R. I., will be received at the office of the State Board of Public Roads, Room 21, State House, Providence, R. I., until twelve o'clock noon, on Wednesday, September 13, 1922, at which time the proposals will be publicly opened and read. Each proposal must be submitted upon a blank form furnished by the Board and accompanied by a certified check for two hundred dollars, ($200.00), made payable to the State of Rhode Island.

The contract will include the removal of the old bridges and the erection of three reinforced concrete bridges containing 163, 214 and 117 cubic yards of concrete masonry, respectively.

Plans and Specifications for this construction will be available on and after 10,00 a.m. Saturday, September 2, 1922, and may be obtained from the office of the State Board of Public Roads by making a deposit of $10.00, which will be refunded upon return of plans and specifications complete and in good condition.

These bridges must be completed on or before December 1, 1922.

ABRAM L. ATWOOD,
BENJAMIN F. ROBINSON,
FRANK COLE,
J. HENRY WOODARD,
ALTON HEAD,
State Board of Public Roads.

OFFICIAL PROPOSALS

Bids: Sept. 13.

Highway Work

Baltimore, Md.

Sealed proposals for building four sections of State Highway, as follows:

HOWARD COUNTY, Contract No. HO-22—One section of state highway from end of Folly Quarter Road to Triadelphia Pike, a distance of 1.5 miles (concrete).

HARFORD COUNTY, Contract No. H-29—One section of state highway from Whiteford toward Dublin, for a distance of 1.0 mile (concrete).

PRINCE GEORGE COUNTY, Contract No. P-37—One section of state highway from Forestville toward Ritchie, for a distance of 2.0 miles (gravel).

CALVERT COUNTY, Contract No. C-14—One section of state highway from Prince Frederick toward Hollowing Point, for a distance of 4.0 miles (gravel).

will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M., Standard Time, on the 13th day of September, 1922, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of $1, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of five hundred ($500) dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 25th day of August, 1922.

JOHN N. MACKALL, Chairman.
L. H. STEUART, Secretary

Bids: Sept. 29.

Furnishing and Laying Raw Water Main

Cleveland, Ohio.

Sealed proposals will be received at the office of the Commissioner of Purchases and Supplies, Room 219 City Hall, Cleveland Ohio, until 12:00 o'clock noon, official Cleveland time, Friday, September 29, 1922, for furnishing and laying about 10,400 lineal feet of 60-inch pipe and other miscellaneous work, for the Division of Water; alternate bids will be received for either cast iron pipe or steel pipe; the bids will be opened and read in the Council Chamber immediately thereafter.

Each bid must be accompanied by a certified check on a solvent bank for six thousand ($6,000) dollars, drawn payable to the City of Cleveland, as surety for the acceptance of the contract.

Each bid must be made in accordance with the plans and specifications; copies of the plans and specifications, proposal and contract may be obtained at the office of the Commissioner of Water, Room 211 City Hall; a deposit of five ($5.00) dollars will be required for each complete set of plans and specifications; said deposit to be returnable upon return in good condition of the said plans and specifications.

No proposal will be entertained unless made on the blanks furnished by the Division of Water and delivered at the office of the Commissioner of Purchases and Supplies, previous to 12:00 o'clock noon on the day above specified.

The City reserves the right to reject any or all bids.

A. V. RUGGLES.
Commissioner of Water.

Bids: Sept. 1, 1923.

Sydney Harbour Bridge

New South Wales, Australia.

INTENDING TENDERERS are hereby notified that the time for receipt of Tenders at Sydney, New South Wales, for the construction of the Superstructure and Substructure of a Cantilever Bridge across Sydney Harbour has been extended by the New South Wales Government until 1st September, 1923.

T. A. COGHLAN.
Agent-General for New South Wales.
Australia House, London, W. C. 2.
14th July, 1922.

OFFICIAL PROPOSALS

Bids: Sept. 26.

Sewage Disposal Plant

Fort Worth, Tex.

Sealed proposals addressed to the Hon. Mayor and Board of Commissioners, Fort Worth, Texas., will be received at the office of C. S. Snow, City Secretary, City Hall, up to 9:00 o'clock a.m., Tuesday, September 26th, 1922, at which time said proposals will be publicly opened, read and considered by the Board of Commissioners for furnishing all necessary materials, equipment and labor for constructing a certain Sewage Disposal Plant for the City of Fort Worth, Texas.

Bidders must submit with proposal a certified check in the sum of Fifteen Thousand ($15,000.00) Dollars, payable, without recourse, to the order of E. B. Cheatham, City Auditor, as a guaranty that bidder will enter into contract and execute bond and guaranty in the forms provided, within ten days after notice of award of contract to him. Proposals without certified check will not be considered. The successful bidder must furnish bond to the amount of 33⅓ per cent of the sum bid, on form attached to "form of contract" attached to specifications, from a reliable surety company approved by the Mayor and Board of Commissioners. All "lump sum" and "unit" prices must be stated in both script and figures.

The City reserves the right to reject any or all bids, and to waive formalities.

In case of ambiguity, or lack of clearness in stating prices in the bids, the City reserves the right to consider the most advantageous construction thereof, or to reject the bid. Unreasonable (or "unbalanced") unit prices will authorize the City to reject any bid. Bidders are expected to inspect the site of the work and to inform themselves regarding all local conditions.

Instructions to bidders, proposal and contract forms, specifications and plans are on file at the office of Dudley L. Lewis, City Engineer; John B. Hawley, 403 Cotton Exchange Building, Fort Worth, and E. E. Sands, Mason Building, Houston, Texas.

Copies of plans and specifications may be secured from any of the above offices after September 12th—upon deposit of $100.00, to be returned to contractor upon submission of a bona fide bid on the work, with plans and specifications, or upon returning plans and specifications, intact, prior to date of receiving bids; otherwise the deposit will be forfeited.

E. R. COCKRELL, Mayor.
J. C. LORD, Com. Water & Sewers.
D. L. LEWIS, City Engineer.
C. S. SNOW, City Secretary.
Fort Worth, Texas.
August 29th, 1922.

Bids: Sept. 11.

Sanitary Sewers

Madisonville, Ky.

Sealed proposals will be received by the Board of Public Works of the City of Madisonville, at the office of the City Clerk for constructing a system of Sanitary Sewers in and for the City of Madisonville, Ky., until one o'clock P.M., September 11, 1922, at which time they will be opened and publicly read.

The work consists of furnishing all labor, material and equipment of all kinds necessary for the construction of approximately 9.2 miles of sanitary sewers, in sizes from 8 in. to 12 in. with all necessary appurtenances complete in accordance with the plans and specifications on file, at the office of the Engineers and the City Clerk.

Each bill must be accompanied by a certified check in the amount of $3,000.00 or an acceptable bidder's bond and drawn in favor of the City Treasurer of Madisonville, Ky.

A bond in the amount of fifty (50) per cent of the contract price will be required for the faithful performance of the work.

Copies of plans and specifications may be seen at the office of the City Clerk of Madisonville, or may be obtained from the Engineers on deposit of ten ($10.00) dollars which will be returned if a bona fide bid is made.

The City reserves the right to reject and and all bids.

F. P. STUM,
Chairman Board of Public Works.
W. J. DUHN,
Secretary Board of Public Works.
HOWERTON-TIRSWAY CO.,
Engineers,
Asheville, N. C.

OFFICIAL PROPOSALS

Bids: Sept. 18.

Excavation

Plainfield, N. J.

Bids will be received by the Common Council of the City of Plainfield, N. J., on Monday, September 18, 1922, at 8:30 p.m., (Daylight Saving Time) for about 46,000 cu.yd. of excavation from an old railroad embankment.

Time for completion, May 1, 1923.

Certified check required, $1,000.

Amount of bond required, 100 per cent of contract price.

The Common Council reserves the right to reject any or all bids, to waive defects in bids, or to accept any bid as it shall deem for the best interest of the city.

Plans and specifications may be obtained from the undersigned.

ALEXANDER W. VARS,
City Engineer.

Dated, Sept. 7, 1922.

A Representative Reports—

"It was my privilege to meet the Road Commissioners of Kalamazoo County (Mich.) in session and they wished me to convey to your staff their appreciation of the excellent results obtained through publishing proposals in *Engineering News-Record*."

Bids: Sept. 22.

Incineration Plant or Crematory

Trenton, N. J.

The Board of Commissioners of the City of Trenton will receive, at the regular meeting of the Board, to be held in the Municipal Bldg., Trenton, N. J., on September 22, 1922, at 2 p.m., ordinance time being 1 o'clock Standard time, sealed proposals for the erection of an addition to the present crematory in accordance with plans and specifications made by A. C. Gregory, Engineer of Sewers and Water, on file in the office of the City Clerk. Copies of the plans and specifications may be seen and obtained at the office of the Engineer of Sewers and Water, Municipal Bldg., Trenton, N. J., on and after Sept. 1, 1922, upon payment of $10.00 which will be refunded upon return of the plans and specifications in good condition.

A. C. GREGORY,
Engineer of Sewers and Water.

Bids: Sept. 11.

Submerged Intake Crib

Monroe, Mich.

Sealed proposals will be received by the City Clerk of Monroe, Mich., up to 7:30 o'clock p.m., eastern standard time, of the 11th day of September, 1922, for the construction and placing of a new submerged water intake crib to be located in Lake Erie near the existing waterworks intake crib.

The crib will be approximately 28 feet square, constructed of timber, floated to the site, sunk into position, and anchored by concrete deposited under water.

The plans and specifications under which the work is to be done may be examined at the office of the City Clerk, Monroe, Michigan, or at the office of Hoad, Decker, Shoecraft and Drury, Consulting Engineers, Ann Arbor, Michigan. Copies of the plans and specifications may be obtained by making a deposit of five dollars which will be refunded upon their return in good condition or their use in a submitted proposal.

A certified check for a sum not less than five per cent of the amount of the proposal will be required with each proposal.

The right to accept any proposal, to reject any or all proposals, and to waive defects in proposals is reserved by the City.

J. H. GILMORE, Mayor.
F. M. KRESSBACH, City Clerk.
HOAD, DECKER, SHOECRAFT & DRURY,
Consulting Engineers, Ann Arbor, Mich.

OFFICIAL PROPOSALS

Bids:: Sept. 25.

Spavinaw Water Supply Project

Tulsa, Okla.

Sealed proposals for the construction of the major portion of the Spavinaw Water Supply Project for the City of Tulsa, Oklahoma, will be received by the Water Commission of the City of Tulsa, and may be filed at the office of the City Auditor, City Hall, Tulsa, Oklahoma, until 3:00 p.m. Monday, September 25th, 1922, and will be opened and publicly read immediately thereafter at a regular meeting of the Water Commission of the City of Tulsa at 3:00 p.m., Monday, September 25, 1922. Proposals will be received on the following contracts:

Contract No. 1 Telephone Line.
Contract No. 2 Clearing Site of Spavinaw Lake.
Contract N. 3 Spavinaw Dam.
Contract No. 4 60 in. Reinforced Concrete Pipe.
Contract No. 5 Tunnel and Approaches.
Contract No. 6 54 in. Reinforced Concrete Pipe.
Contract No. 7 Mohawk Reservoir.
Contract No. 8 Furnishing Cast Iron or Steel Pipe and Specials.
Contract No. 9 Furnishing Gate Valves.
Contract No. 10 Laying Cast Iron or Steel Pipe.
Contract No. 11 High Pressure Reservoir.

After the reading of the bids on these contracts they will be immediately considered, but in no event will any contract or contracts be awarded earlier than forty-eight (48) hours thereafter.

The principal quantities are approximately as follows:

DAM: Concrete, 79,000 cubic yards.
Earth embankment, 182,000 cubic yards.
PIPE: 28 miles of 60 in. and 25 miles of 54 in. pre-cast reinforced concrete pipe.
Earth Excavation in trench, 310,000 cubic yards.
Rock Excavation in trench, 26,000 cubic yards.
TUNNEL: 7,000 ft. 84 in. Tunnel.
3,050 ft. 84 in. monolithic concrete conduit.
MOHAWK RESERVOIR: 300,000 cubic yards earth embankment.
REINFORCED CONCRETE HIGH PRESSURE RESERVOIR OR RESERVOIRS: 10,000,000 gal. aggregate capacity; 10,000 ft. 36 in. Cast Iron or Steel Pipe; 6,000 ft. 30 in. Cast Iron or Steel Pipe; 8,000 ft. 20 in. Cast Iron Pipe. Specials and Valves.

Each proposal must be accompanied by a certified check on any reputable bank or trust company, payable without reserve to the City of Tulsa, Oklahoma, for five per cent (5%) of the amount of the bid.

All proposals must be made on blank forms furnished by the City of Tulsa and in accordance with the "Requirements for Bidding and Instructions to Bidders."

Proposals may be tendered on one or more contracts or on all of the contracts, but any proposal must include all items under the contract or contracts for which bid is tendered.

Plans, Specifications and Requirements for Bidding and Instructions to Bidders are on file at the Office of the Water Commission at the City Hall and may be seen at the office of Trammell and Holway, Engineers on the Spavinaw Water Supply Project, 329 Kennedy Building, Tulsa, Oklahoma, or at the office of Dabney H. Maury, Consulting Engineer for the said Project, 1445 Monadnock Block, Chicago, Illinois. Complete plans and specifications will be furnished by the Engineers or by the Consulting Engineer, upon the deposit of $50.00 by check payable to Trammell and Holway. Upon return of the plans and specifications in good condition within a reasonable time after the awarding of the contracts, $30.00 will be refunded. Proportionate deposit and refund may be arranged for if bidder desires only parts of the plans.

The Water Commission reserves the right to reject any bid or bids, or all bids, and to waive any informalities.

WATER COMMISSION OF THE
CITY OF TULSA.
A. J. RUDD, Chairman.
G. R. McCULLOUGH,
C. S. AVERY,
H. L. STANDEVEN,
A. L. FARMER,
ROY GARBETT,
City Auditor.
TRAMMELL and HOLWAY, Engineers,
329 Kennedy Building,
Tulsa, Oklahoma.
DABNEY H. MAURY,
Consulting Engineer,
Chicago, Ill.

OFFICIAL PROPOSALS

Bids: Sept. 25.

Sewage Pumping Equipment

Hackensack, N. J.

The Hackensack Improvement Commission, the governing body of the City of Hackensack, Bergen County, New Jersey, requests proposals for the following, to wit:

Contract No. 3—For furnishing pumping equipment, consisting of A. B. Wood patent trash pumps; motors and switchboards to be installed in the structures to be built for the City of Hackensack under another contract, which contract is known as Contract No. 1.

The foregoing equipment is more completely described and set forth in the plans and specifications on file with Lemuel Lozier, Engineer of the Commission, and with the clerk of the Commission.

The plans and specifications, information for bidders, forms of proposals and contracts, forms of bonds required and other information can be seen at the office of Lemuel Lozier, Engineer of the Commission, Room 3, Bank Building, Main and Mercer Streets, Hackensack, New Jersey; copies of such plans and specifications may be obtained by bidders on making a deposit of $100.00, which deposit will be refunded upon the return of the plans and specifications in good condition.

The contract will be let to the lowest responsible bidder, subject to the right of the Commission to reject any and all bids.

All bids must be made on the form of proposal to be obtained from the Engineer of the Commission, and must give the prices both in writing and in figures, and must give such other information and be signed in the manner indicated on the form of proposal. Each bid submitted for Contract No. 3 must be accompanied by a certified check for $1,000, payable to the "Hackensack Improvement Commission."

Checks of the unsuccessful bidders will be returned immediately upon the award of the contract. The check of the successful bidder will be returned to the bidder upon the execution of the contract and the furnishing of the bonds required, within ten days after the date of the award thereof, or within such extended time as may be determined by the Commission. In case of failure to execute the required contract, and furnish the required bonds within such time, such check shall be forfeited to the Hackensack Improvement Commission as liquidated damages.

The proposals herein required for Contract 3 shall be presented to the Hackensack Improvement Commission, at the Municipal Building, 346 State Street, Hackensack, Bergen County, New Jersey, on Monday, the twenty-fifth (25) day of September, 1922, at 8 P.M. daylight saving time, 7 P.M. standard time.

No bids will be received prior to said hour and none thereafter. The proposals shall be submitted in sealed envelopes or packages.

The proposals shall be endorsed as follows:

"Proposals for pumping equipment Contract No. 3."

THE HACKENSACK IMPROVEMENT COMMISSION,
By SPENCER D. BALDWIN, Mayor.
WILLIAM SCHAFF, Clerk.

Bids: Sept. 13.

Bulkhead

Chicago, Ill.

SEALED PROPOSALS will be received by the South Park Commissioners, 57th Street and Cottage Grove Avenue, Chicago, Illinois, until 12 o'clock noon, September 13, 1922, for the construction of a bulkhead paralleling the shore line of Lake Michigan from opposite 29th Street to opposite 39th Street, a distance of approximately 7200 lineal feet.

PLANS AND SPECIFICATIONS may be obtained without cost to responsible bidders by application to the South Park Commissioners' office as above. Each bid must be accompanied by cash or certified check amounting to five (5%) per cent of the estimated total of bid, and the bidder to whom the contract is awarded will be required to execute with the contract a surety company bond in the sum of 25 per cent of the estimated amount of the contract.

J. F. NEIL,
Secretary.

OFFICIAL PROPOSALS

Bids: Sept. 14.

Bridge Work

Stillwater, N. Y.

Bids will be received, for the encasing by concrete of five piers under the Stillwater Bridge crossing the Hudson River at Stillwater, at the office of the Town Clerk, Mr. H. C. Pitney, at Stillwater, N. Y., on Thursday, September 14, 1922, at two o'clock p.m., (new time), at which time they will be publicly opened and read. The right is reserved to reject any or all bids.

Necessity demands the immediate repairs to two of the piers. Time will be allowed for the balance of work, governed by the weather and river conditions.

Plans and specifications may be had at the office of Mr. H. C. Pitney, Town Clerk, at Stillwater, N. Y. A certified check for 5% of the amount of the bid will be required to accompany each proposal. Checks to be made payable to Emmor J. Smith.

EMMOR J. SMITH,
Town Supt. of Schaghticoke.
REUBEN BRITTEN,
Town Supt. of Stillwater.

Mr. Potter Knows—

(Alexander Potter, C. E.)
(50 Church St., New York)

He recently received 63 requests for plans and specifications on a New Jersey water supply system.

Bids were advertised in the Official Proposal Columns.

"This speaks well for *Engineering News-Record* as an advertising medium," he wrote us.

Bids: Oct. 3.

Water Works System and Sanitary Sewer System

Haines City, Fla.

Sealed proposals for furnishing material and constructing a Water Works System and a Sanitary Sewer System for the Town of Haines City, Fla., will be received by the Mayor and Council at the City Hall, until 2 P.M., October 3rd, 1922.

The Water Works System will consist of approximately 4 miles of 4 in., 6 in., 8 in. and 10 in. cast iron pipe, with specials, valves and hydrants, a clear water collecting well, pump station and equipment, and a 100,000 gallon elevated tank.

The Sewer System will consist of approximately 1.7 miles of 8 in., 10 in. and 15 in. vitrified pipe, with manholes, flush tanks, and appurtenances, and a settling tank and tile under-drain system.

Each proposal must be accompanied by a certified check, payable to the Town of Haines City, Florida, to an amount equal to five (5) per cent of the bid, as a guarantee that the contract will be entered into if awarded. A bond of one hundred per cent (100%) of the contract price will be required. Payments will be made on monthly estimates.

Plans and specifications are on file in the office of the City Clerk, at Haines City, Florida, and with Paul H. Norcross, Consulting Engineer, 1404 Candler Building, Atlanta, Georgia.

Bidders may obtain copies from the Engineer by enclosing certified check for twenty-five ($25.00) dollars, payable to the Town of Haines City, Florida. If blue prints are desired they may be had at the cost of printing. If the plans, specifications and blue prints are returned within thirty days after opening bids, the check for twenty-five dollars will be returned.

R. O. PHILPOT,
President City Council.
JED R. YALE,
City Clerk.

PAUL H. NORCROSS,
Consulting Engineer,
1404 Candler Building,
Atlanta, Georgia.

OFFICIAL PROPOSALS

Bids: Sept. 21.

Sewer Construction

Letting No. 4

Louisville, Ky.

Sealed proposals will be received by the Commissioners of Sewerage of Louisville until 12 o'clock noon, September 21, 1922, for the following sewer construction in Louisville, Ky., according to drawings and specifications now on file in the office of the Commission:

This letting embraces Bardstown Road District Trunk Sewer and Drain, Sections B and C and the Spring Drive—West—Sewer and Drain included in a single contract.

Approximate quantities are as follows:

The Drains: 790 lin.ft. of 87 inch; 627 lin.ft. of 63 inch; 320 lin.ft. of 60 inch; 375 lin.ft. of 21 inch; 285 lin.ft. of 18 inch; 420 lin.ft. of 12 inch.

The Sewers: 790 lin.ft. of 18 inch; 950 lin.ft. of 15 inch; 1,085 lin.ft. of 8 inch.

And two reinforced concrete junction chambers.

Proposals are invited for alternate types of sewer barrel construction.

Drawings, form of proposal, contract and specifications may be obtained from the office of the Commission upon the deposit of Ten Dollars ($10.00) to secure the return of same in good condition before October 7, 1922.

Each proposal must be inclosed in a sealed envelope addressed to the Commissioners of Sewerage, 417 West Main Street, Louisville, Ky., and accompanied by a certified check drawn upon a State or National Bank or a trust company established in the city of Louisville (or the city of New York) for an amount not less than seven (7) per cent of the total amount of the accompanying proposal payable to the Commissioners of Sewerage of Louisville or the bond executed as set forth in the information for bidders.

The Commission reserves the right to reject any or all proposals.

COMMISSIONERS OF SEWERAGE OF LOUISVILLE.
By OSCAR FENLEY,
Vice Chairman.
P. H. HOGE, JR.,
Sect. & Treas.

J. B. F. BREED,
Chief Engineer.

Bids: Oct. 10.

Sewage Pumping Station and Grit Chamber

Syracuse, N. Y.

Sealed proposals will be received until 2 o'clock p.m., standard time, October 10, 1922, at the office of the Syracuse Intercepting Sewer Board, 104 City Hall, Syracuse, N. Y., for the machinery and equipment for the Sewage Pumping Station and Grit Chamber now in course of construction at the Sewage Treatment Works of the City of Syracuse.

Equipment included in the contract are the switchboard and control mechanisms, four 24-inch horizontal shaft centrifugal pumps direct-connected to 75 H.P. variable speed A.C. motors, auxiliary vacuum, priming pumps and sump pump, a 10 K.W. motor-generator set, cast iron suction and discharge piping with four 24-inch hydraulically operated gate valves, a 54-inch hydraulically operated sluice gate, three 48-inch by 51-inch electrically operated sluice gates, a 7½ ton hand operated traveling crane, with permission to use same during erection, and a grit cleaning mechanism consisting of tramrail with electrically operated hoist and ¾ cubic yard clam-shell bucket; and all necessary wiring and piping connections. All equipment will be erected upon concrete foundations provided by the Board under another contract.

Proposals must be made on blanks to be furnished upon application and must be accompanied by a New York draft or a certified check for $6,000, which is to be deposited therewith as guarantee that the successful bidder will execute the contract within five days after its award.

Drawings, specifications and form of proposals and contracts are on file in the offices of the Board. Copies thereof may be obtained by depositing $10 to insure their return in acceptable condition on or before November 1, 1922.

HARRY J. HAMLIN,
Secretary.

OFFICIAL PROPOSALS

Bids: Sept. 23.

Sewers

Bloomington, Ill.

Sealed bids will be received by the Trustees of the Bloomington and Normal Sanitary District, at 404 Unity Building, Bloomington, Illinois, up to 10 o'clock a.m., September 23, 1922, for the construction of the following work of the District.

Division Street Sewer Extension, consisting of:

820 feet of 18 inch Vitrified Pipe Sewer.
12 feet of 18 inch Cast Iron Pipe Sewer.
2 Manholes.
1 Overflow Chamber.
1 Headwall.

And the Valley Sewer Overflow Chamber, requiring 37 cubic yards of reinforced concrete.

All bids must be on forms prescribed by the Trustees, and bidding blanks may be obtained from Taylor & Woltmann, 428 Unity Building, Bloomington, Illinois, engineers for the District.

Plans, profiles and specifications for the work may be obtained from the engineers.

All bids must be accompanied by a check for 10 per cent of the amount of the bid certified by a responsible bank, payable to John W. Harber, president of the Board of Trustees.

The Trustees reserve the right to reject any and all bids.

Dated Bloomington, Illinois, August 22, 1922.

JOHN W. HARBER,
FRED D. BARBER,
JOHN J. CONDON,
Trustees, Bloomington and Normal Sanitary District.

Bids: Sept. 22.

Drainage Work

Wynne, Ark.

Bids will be received by the Board of Commissioners of Drainage District No. 3, of Cross County, Arkansas, at the Court House in Wynne, on Friday, September 22nd, 1922, for the construction of about fifty-three miles of ditches ranging in size from six to thirty feet in bottom width and amounting to about 1,438,000 cubic yards of earth excavation; also the clearing of about 674 acres of right of way and the laying of about 3,000 lineal feet of pipe.

The Commissioners will reserve the right to receive auction or sealed bids, or both, and to reject any or all bids.

Bidders' bond or a certified check for Five Thousand Dollars will be required of all bidders; and a satisfactory surety bond amounting to 50% of the contract will be required of the successful bidder.

A map of the district showing the location of the different ditches and elevations and a copy of the contract and specifications may be had upon the payment of $2.00 to the engineer, or they may be seen at the County Clerk's Office in Wynne. Bidders so desiring will be accompanied over the District on Wednesday and Thursday, September 20th and 21st.

W. S. NEWSOM, Engineer,
Wynne, Ark.

OFFICIAL PROPOSALS

Bids: Sept. 20.

Concrete Arch Bridge

Norwalk, Conn.

Sealed proposals will be received by the Mayor of the City of Norwalk, South Norwalk, Connecticut, at 7 o'clock P.M. (daylight saving time) on September 20, 1922, for the removal of steel work and masonry jack arches on the south side of the present bridge and for the construction of a reinforced concrete arch extension, 60 ft. span and about 23 ft. wide, at the Wall Street Bridge in Norwalk, Connecticut.

Plans, specifications and proposal blanks for this work may be seen at the office of the City Engineer, City Hall, South Norwalk, Connecticut, or they may be obtained from the City Clerk, South Norwalk, Connecticut, upon the payment of $5.00, which sum will be refunded to all parties submitting a proposal for this work.

Each bid shall be accompanied by a property certified check payable to the order of the Treasurer, City of Norwalk, upon a bank satisfactory to the Mayor and Council, for the sum of $2,500.00.

All proposals must be marked "Proposal for the construction of the southerly extension to Wall Street Bridge."

The City reserves the right to reject any or all bids.

CALVIN L. BARTON,
Mayor.

Bids: Sept. 28.

Laboratory Building

Ithaca, N. Y.

Sealed proposals for Construction, Heating, Sanitary and Electric Work, Addition to Laboratory Building (South Wing—James Law Hall), at the New York State Veterinary College, Cornell University, Ithaca, N. Y., will be received by Mr. C. D. Bostwick, Comptroller, Cornell University, Ithaca, N. Y., until 12 o'clock noon, (Standard Time), on Thursday, September 28, 1922, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent (5%) of the amount of proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specifications Nos. 3472, 3473, 3474 and 3475. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the office of Mr. C. D. Bostwick, Comptroller, Cornell University, Ithaca, N. Y.; at the New York Office of the Department of Architecture, Room 1058, 25 Broadway, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, L. F. Pilcher, Capitol, Albany, N. Y.

Dated: August 28, 1922.

OFFICIAL PROPOSALS

Bids: Sept. 20.

Outfall Sewer

Manchester, N. H.

Sealed proposals, on blank forms attached to the specifications and furnished by the Surveyor of the Department of Highways, Manchester, N. H., addressed to the Surveyor, Department of Highways, Manchester, N. H., will be received until 4 o'clock P.M. (Daylight Saving Time), September 20, 1922, for furnishing all material and labor for the construction of an Outfall Sewer, together with connections, dry weather outfall, head wall, etc., as shown upon the plans and specified in the specifications adopted by the City of Manchester, through the Surveyor.

The bids must be accompanied by a certified check to the amount of 5% of the total amount of the bid, made payable to the Treasurer of the City of Manchester and said check must be submitted and inclosed with the Sealed Proposal.

Contract, Drawings, Specifications and other data are on file for inspection at the Surveyor's Office, City Hall, Manchester, N. H., and specifications and plans can be had by making a payment of $10 to the Surveyor.

The right is reserved to reject any and all bids and to waive any informality in the bids.

E. R. CONANT, Surveyor,
Department of Highways,
Manchester, N. H.
Manchester, N. H., August 30, 1922.

Bids: Sept. 19.

Six Sections of Highway Work

Baltimore, Md.

SEALED PROPOSALS for building six sections of State Highway, as follows:

Carroll County—Contract CL-31—One section of state highway from Westminster toward Warfieldsburg for a distance off 2.0 miles—(Concrete).

Baltimore City—Contract BC-42—One section of state highway along Columbia Ave. from Monroe Street to Gwynn Falls, for a distance of 0.42 mile—(Sheet Asphalt).

Anne Arundel County—Contract AA-27—One section of state highway along the Southern Maryland Blvd. from Benfield south for a distance of 4.0 miles—(Concrete).

Prince George County—Contract P-39—One section of state highway along the Southern Maryland Blvd. from Marlboro south for a distance of 4.0 miles—(Concrete).

St. Marys County—Contract SM-21—One section of state highway from the state road one-half mile north of Leonardtown toward Compton, a distance of 1.0 mile—(Gravel).

Dorchester County—Contract D-28—One section of state highway from Rhodesdale toward Vienna, for a distance of 1.0 mile—(Concrete).

Will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 19th day of September, 1922, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of $1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred ($500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 31st day of August, 1922.

JOHN N. MACKALL,
Chairman.
L. H. STEUART, Secretary.

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¶That was the secret of the old carriage maker's work of "building a wonderful, one-horse chaise that wouldn't wear out till judgment day"—¶That plan is the keynote of Swart specialized Contract Bond Service. ¶Each step from the securing of preliminary information to the preparation of the case and presentation of it to the underwriter is handled as though the whole deal hinged on a single point. ¶That is why Swart Service Really Serves. ¶That is why Swart Service would be an economical buy at twice the standard rates. ¶That is why the ordinary type of service is twice as expensive as Swart Service. ¶That is why with Swart Service at your service at the cost of the ordinary sort it is the best buy for you. ¶Swart is ready to tell you more. Are you ready to listen?

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Expert investigation by the Ætna's engineering department is often the deciding factor in issuing a contract bond.

ÆTNA CASUALTY AND SURETY COMPANY

HARTFORD, CONN. AGENTS EVERYWHERE

OFFICIAL PROPOSALS

Bids: Sept. 11.

Street Improvement

White Plains, N. Y.

Sealed bids or proposals for the improvement of Palmer Avenue from Central Avenue westerly to Miles Square Road, a distance of 0.57 miles in the City of Yonkers, Westchester County, New York, will be received at the office of the Clerk of the Board of Supervisors, Court House, White Plains, N. Y., until 10 a.m., September 11, 1922 (Standard Time).

Specifications, proposal sheets and all information relative to same may be procured at the office of the County Superintendent of Highways, Court House, White Plains, N. Y., upon making a deposit of Three Dollars ($3.00).

BOARD OF SUPERVISORS.
FRED L. MERRITT, Clerk.
August 26, 1922.

Bids: Oct. 10.

Steam Turbine and Accessories

New Orleans, La.

Sealed proposals will be received by the Sewerage and Water Board of New Orleans up to 12 o'clock, noon, Tuesday, October 10th, 1922, for furnishing one 6,000 kw. STEAM turbine and accessories.

Specifications and blank forms of proposals may be obtained at Room 303, No. 526 Carondelet Street, New Orleans.

The right is reserved to reject any or all bids.

A. G. MOFFAT,
Secretary.

GEO. G. EARL,
General Superintendent.
Aug. 10, 1922.

U. S. GOVERNMENT

U. S. ENGINEER OFFICE, Buffalo, N. Y.—Sealed proposals will be received here until 11 a.m. (Eastern Standard Time), September 28, 1922, and then opened, for dredging and rock excavation in Sandusky Harbor, Ohio. Further information on application.

U. S. GOVERNMENT

PROPOSALS FOR STEEL OIL BARGES.—U. S. Engineer Office, 329 Customhouse, New Orleans, La.—Sealed proposals will be received here until 9:00 a.m., Sept. 15, 1922, and then opened, for construction and delivery of two 4,000-barrel steel oil barges in the Mississippi River, at New Orleans, La. Further information on application.

U. S. ENGINEER OFFICE, HONOLULU, T. H., August 10, 1922.—Sealed proposals will be received here until 11 a.m., October 31, 1922, and then opened, for dredging in Honolulu Harbor, T. H. Further information on application here or to U. S. Engineer Office, 401 Customhouse, San Francisco, Calif.

U. S. ENGINEER OFFICE, SAVANNAH, Ga.—Sealed proposals will be received here until 12 noon, September 26, 1922, and then opened, for repairing training walls in Savannah Harbor, Ga. Further information on application.

U. S. ENGINEER OFFICE, Providence, R. I. Sealed Proposals will be received here until 11 o'clock a.m., standard eastern time, September 15, 1922, and then opened, for repairing of east jetty at entrance to Nantucket Harbor, Mass. Further information on application.

U. S. ENGINEER OFFICE, Room 710, Army Building, 39 Whitehall Street, New York, N. Y. Sealed proposals will be received here until 12 m., October 5, 1922, and then opened, for dredging and rock removal in East River, N. Y. Further information on application.

U. S. ENGINEER OFFICE, MOBILE, ALA.—Sealed proposals will be received here until 11 o'clock a.m., Oct. 10, 1922, and then opened, for the construction of one 100-ft. Diesel-Electric towboat. Further information on application.

U. S. GOVERNMENT

U. S. ENGINEER OFFICE, FLORENCE, ALA.—Sealed proposals will be received here until 11 a.m., September 18, 1922, and then opened, for furnishing and delivering livery of two steel barges. Further information on application.

U. S. ENGINEER OFFICE, JACKSONVILLE, FLA.—Sealed proposals will be received here until 12 m., Sept. 21, 1922, and then opened, for jetty repairs at the entrance to St. Johns River, Fla. Further information on application.

U. S. ENGINEER OFFICE, FLORENCE, ALA.—Sealed proposals will be received here until 11 a.m., September 18, 1922, and then opened, for the construction and de one hydraulic turbine of 1,000 horsepower capacity, with governor. Further information on application.

TREASURY DEPARTMENT, SUPERVISING ARCHITECT'S OFFICE, WASHINGTON, D. C. Sept. 1, 1922. Sealed proposals will be opened in this office at 3 p.m., September 29, 1922, for the construction of the United States Post Office at Eureka, Utah. Drawings and specifications may be obtained from the Custodian of the site at Eureka, Utah, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., August 31, 1922. Sealed proposals will be opened in this office at 3 p.m., September 28, 1922, for Extension, Remodeling, etc., of the United States Post Office and Court House at Alexandria, La. Drawings and specifications may be obtained from the Custodian at Alexandria, La., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

U. S. ENGR. OFFICE, WILMINGTON, DEL.—Sealed proposals will be received here until 11 A.M., October 6, 1922, and then opened, for dredging Tuckerton Creek, N. J. Further information on application.

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